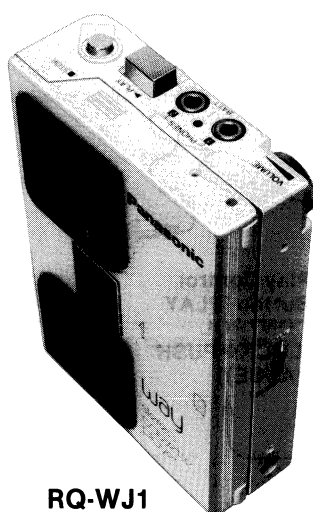
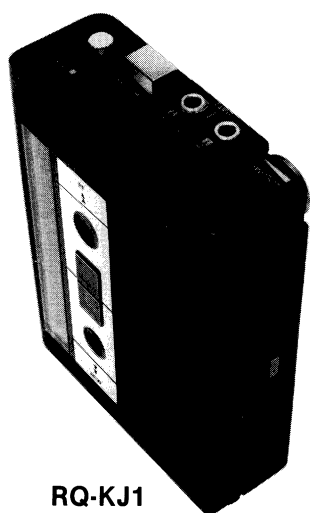
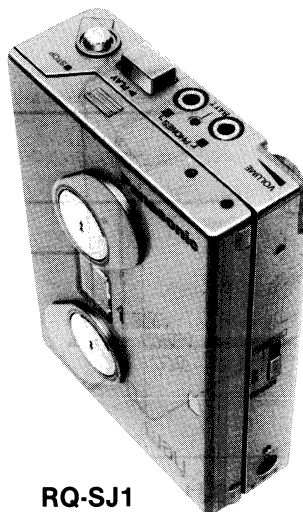


Service Manual

Mini Cassette

RQ-WJ1
RQ-KJ1
RQ-SJ1

World's Smallest AC/Battery Stereo Cassette
 Player with Stereo Headphones

**RQ-WJ1****RQ-KJ1****RQ-SJ1**

This is the Service Manual for the following areas.

- D** For all European areas except United Kingdom.
- B** For United Kingdom.
- N** For Asia, Latin America, Middle East and Africa areas.
- A** For Australia.

RQ-WJ1 MECHANISM SERIES

Specifications

Power requirements:

- D/B** ... AC; with optional Panasonic AC adaptor RP-31
 Battery; 3V (two R6 size)
 Battery adaptor; 3V (two R20 size batteries)
 with optional battery adaptor RP-6120
- N** AC; with optional AC adaptor RP-34
- N/A** ... Battery; 3V [two UM-3 (R6) size batteries]
 Battery adaptor; 3V [two UM-1 (R20) size
 batteries with included battery adaptor]

Motor: Electrical governor motor

Frequency response: Normal tape; 30 — 14,000Hz

Metal tape; 30 — 15,000Hz

Tape speed: 4.8cm/s

Track system: 4-track 2-channel stereo playback with included stereo headphones

Fast forward and
 rewind time: Approx. 120 seconds with C-60 cassette tape

Jacks: DC-in; 3V

Headphones × 2; output level 630mV
 (16Ω, one headphones in use)

Head: 1 super permalloy head for stereo playback
 (Hyperbolic type)

Dimensions 75.0mm(W) × 108.0mm(H) × 28.0mm(D)

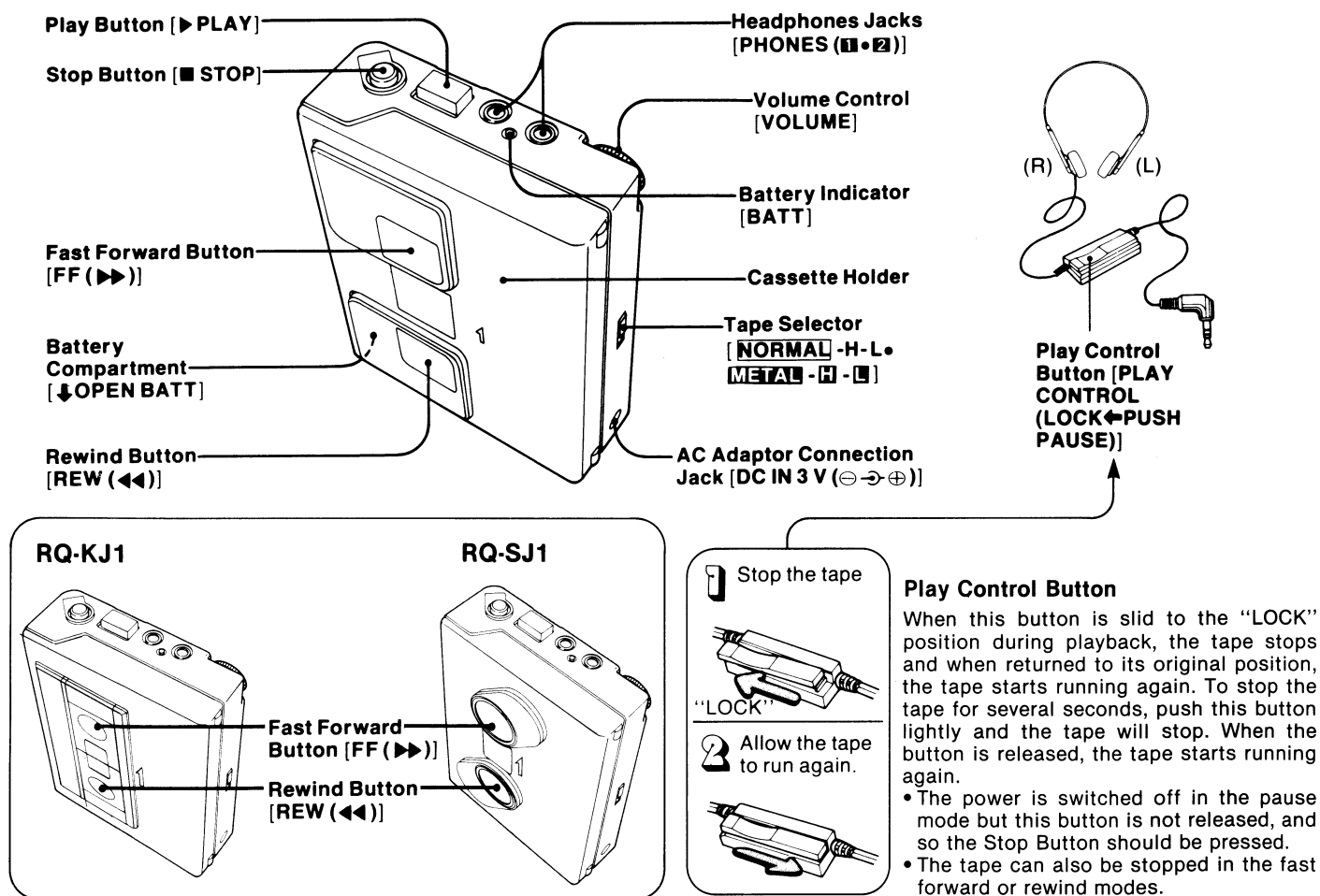
Weight: 223 g, without batteries

Specifications are subject to change without notice.

CONTENTS

ITEM	PAGE	ITEM	PAGE
LOCATION OF CONTROLS AND COMPONENTS	2	CIRCUIT BOARDS AND	
DISASSEMBLY INSTRUCTIONS	2	WIRING CONNECTION DIAGRAM	9
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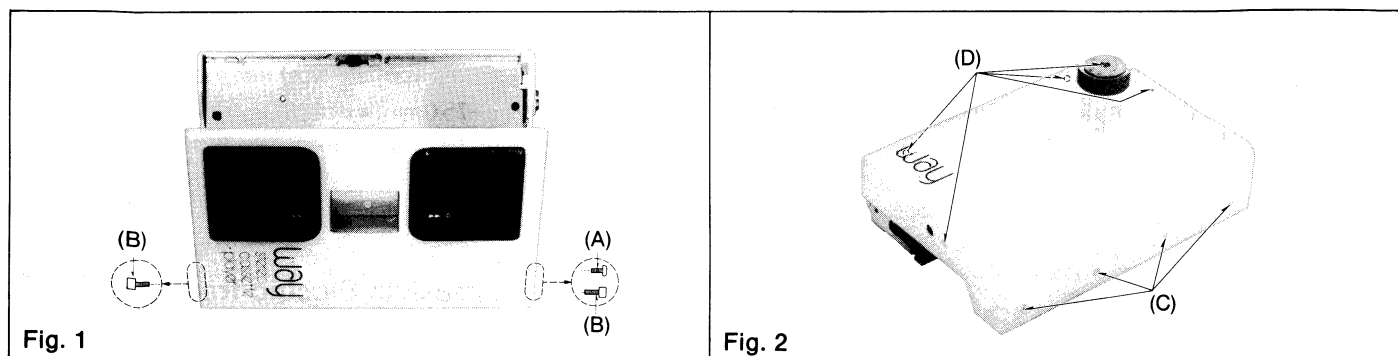
LOCATION OF CONTROLS AND COMPONENTS



DISASSEMBLY INSTRUCTIONS

Notes:

1. Because this unit is very small, and therefore the screws are also especially small, be careful not to lose any parts during disassembly.
2. Be very careful, when replacing parts or checking, not to damage the lead wiring, because it is much thinner than lead wiring used in other sets.



CHIP PARTS REPAIR PROCEDURE

(transistor, diode, resistor and capacitor, etc.)

A. Removal

1. Remove all solder from both ends of chip using a solder sucker (RP8062) or desoldering wick.
 2. While the chip is hot remove it by turning with tweezers, as shown in fig. 1.
- * Make sure that the unit is turned OFF when checking the resistance and polarity of a chip.

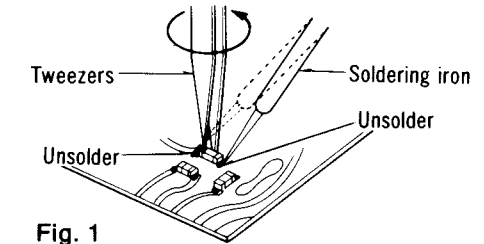


Fig. 1

B. Mounting

Place solder on the foil chip mounting, and solder the chip while applying the soldering iron in the direction of the arrow, as shown in the diagram (fig. 2).

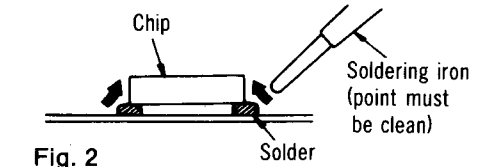


Fig. 2

C. Precautions in mounting the chip

1. Do not heat the chip beyond 3 seconds.
 2. Do not rub the electrode.
 3. Use tweezers to prevent any damage to the surface.
 4. It is recommended that a pencil-type soldering iron be used.
 5. Maintain temperature control under 260°C (500°F) when soldering.
 6. Do not re-use the tantalum capacitors or ceramic capacitors after removal (use new components).
 7. Do not subject the components (chips) to excessive stress.
- * Chip resistance (of not more than 100Ω) may vary greatly with the direction of mounting; therefore, mount the white side on the pattern side.

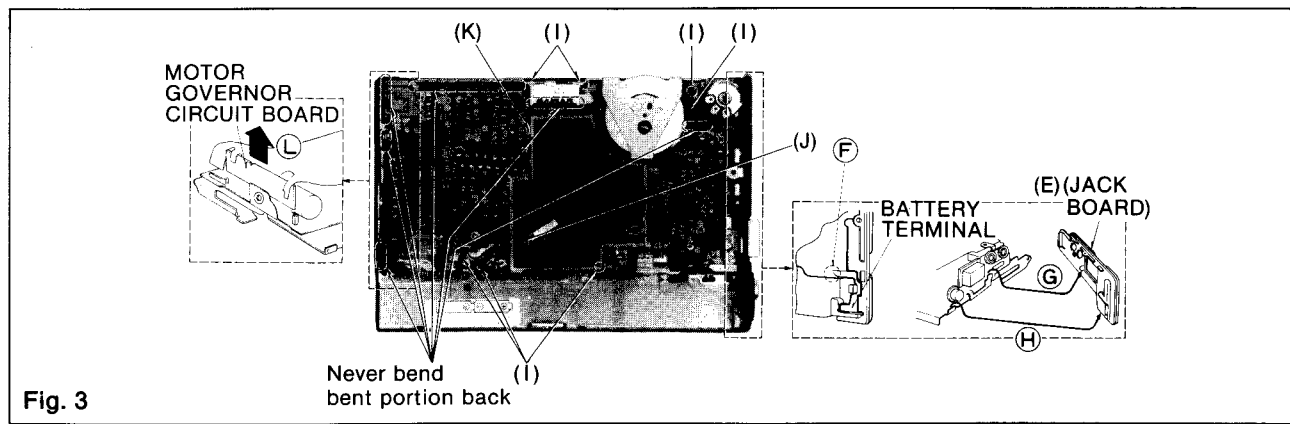


Fig. 3

Ref. No.	Procedure	To remove —	Remove —	Shown in fig. —
1	1	Cassette lid assembly	• 1 screw (A) • 2 screws (B)	1 1
2	1	Bottom case assembly	• 4 screws (C) • 5 screws (D)	2 2
3	1→2→3	Circuit board	• Jack board (E) 1. Unsolder the soldered portion (F) of the battery terminal. 2. Move the jack board in the direction of arrows (G) and (H) to remove. • 7 screws (I) • 1 screw (J) • Shield plate (K) • Move the motor governor circuit board in the direction of arrow (L) to remove.	3 3 3 3 3 3 3

Assembly notes:

When installing the printed circuit board on the mechanism unit, note the following:
Check that the playback (S1), fast forward/rewind (S2) switches are placed in their specified positions as shown in fig. 4.

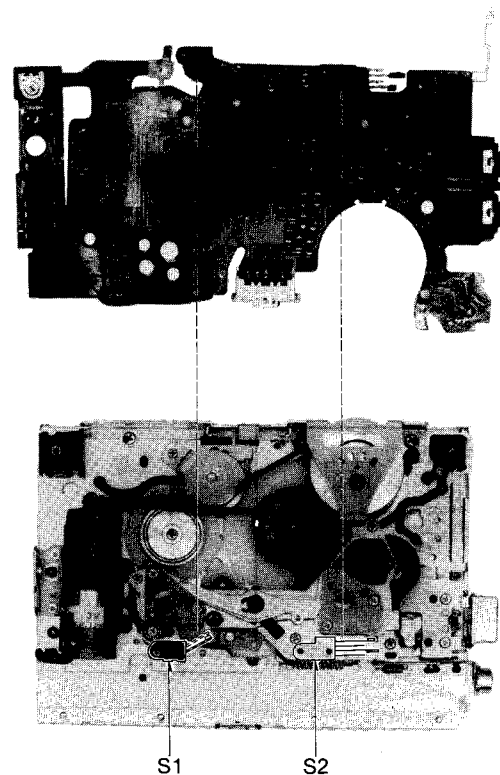


Fig. 4

Installation of cassette lid assembly (common to RQ-WJ1/KJ1/SJ1)

When mounting the cassette lid assembly on the M69: cassette holder assembly, orient the M69: cassette holder assembly to the position shown in fig. 5 (so that it engages grooves (A) and (B)).

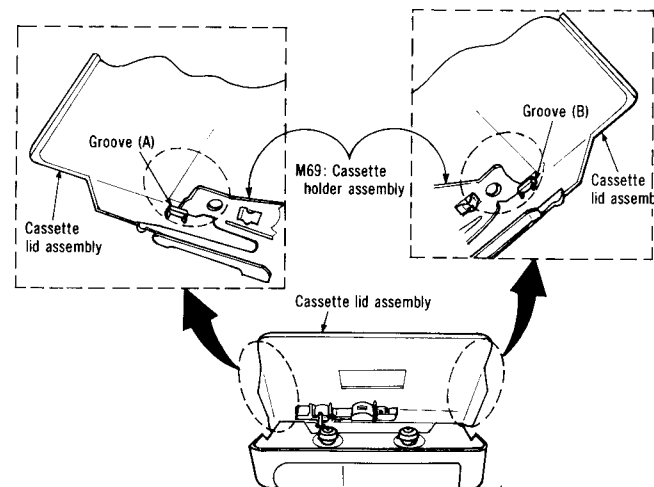


Fig. 5

MEASUREMENT AND ADJUSTMENT METHODS

NOTES:

- Make sure head is clean.
- Make sure capstan and pressure roller are clean.
- Judgeable room temperature: 20 ± 5°C (68 ± 9°F)
- Volume control: Maximum
- Tape select switch: Normal (Hi)

ITEM	MEASUREMENT & ADJUSTMENT
Head azimuth adjustment Condition: • Playback mode Equipment: • VTVM • Oscilloscope • Test tape (azimuth) ... QZZCFM • Stereo M3 plug • Resistor (16Ω)	Head azimuth adjustment and precautions Rough adjustment 1. Remove the cassette lid before head azimuth adjustment. Fine adjustment 2. Fine adjust after installing the cassette lid (without the cap). (The cap can be easily removed by pressing it from the rear of the cassette lid.) 3. After adjustment, be sure to apply screw lock agent to the adjustment screws before installing the cap. L-CH/R-CH output balance adjustment 1. Make connections as shown in fig. 1 and 2. 2. Playback the 8kHz signal from the test tape (QZZCFM). Adjust screw (B) in fig. 3 for maximum output L-CH and R-CH levels. When the output levels of L-CH and R-CH are not at maximum at the same time, readjust as follows. 3. Turn the screw shown in fig. 3 to find angles A and C (points where peak output levels for left and right channels are obtained). Then, locate the angle B between angles A and C, i.e., a point where L-CH and R-CH output levels come together at maximum (Refer to figs. 3 and 4).

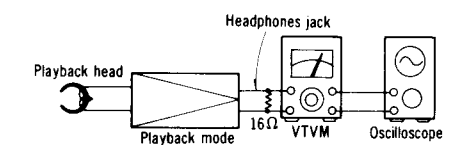


Fig. 1

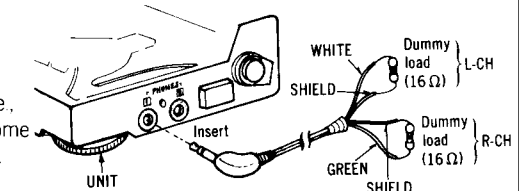


Fig. 2

CHIP PARTS REPAIR PROCEDURE

(transistor, diode, resistor and capacitor, etc.)

A. Removal

- Remove all solder from both ends of chip using a solder sucker (RP8062) or desoldering wick.
 - While the chip is hot remove it by turning with tweezers, as shown in fig. 1.
- * Make sure that the unit is turned OFF when checking the resistance and polarity of a chip.

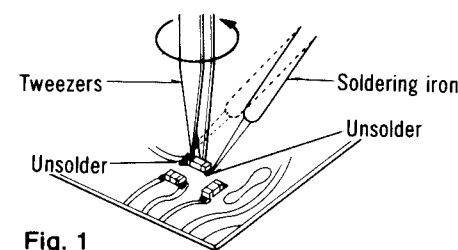


Fig. 1

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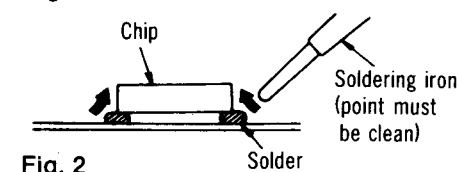


Fig. 2

C. Precautions in mounting the chip

- Do not heat the chip beyond 3 seconds.
 - Do not rub the electrode.
 - Use tweezers to prevent any damage to the surface.
 - It is recommended that a pencil-type soldering iron be used.
 - Maintain temperature control under 260°C (500°F) when soldering.
- * Chip resistance (of not more than 100Ω) may vary greatly with the direction of mounting; therefore, mount the white side on the pattern side.
- Do not re-use the tantalum capacitors or ceramic capacitors after removal (use new components).
 - Do not subject the components (chips) to excessive stress.

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- Tape select switch: Normal (Hi)

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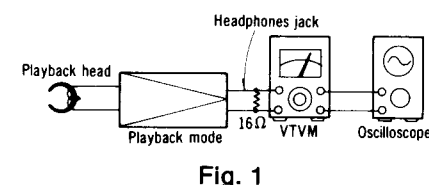


Fig. 1

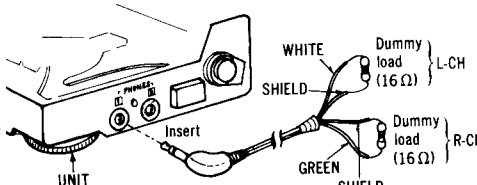
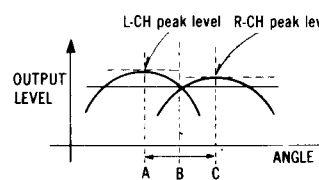
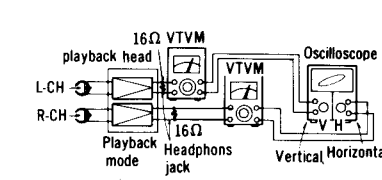
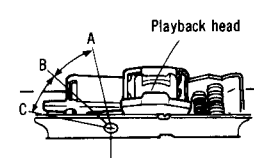
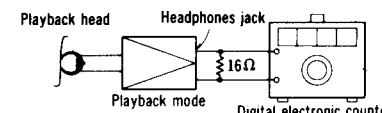
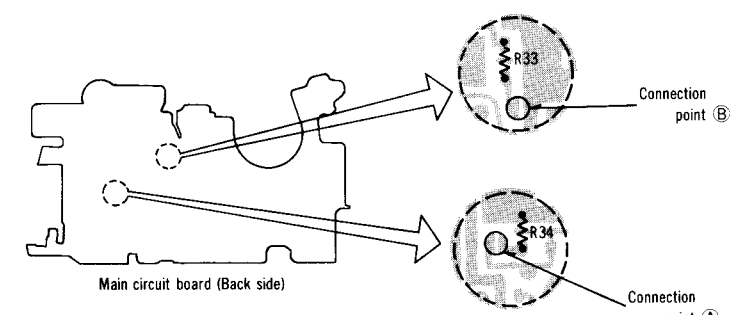
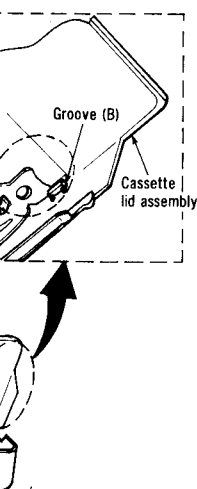


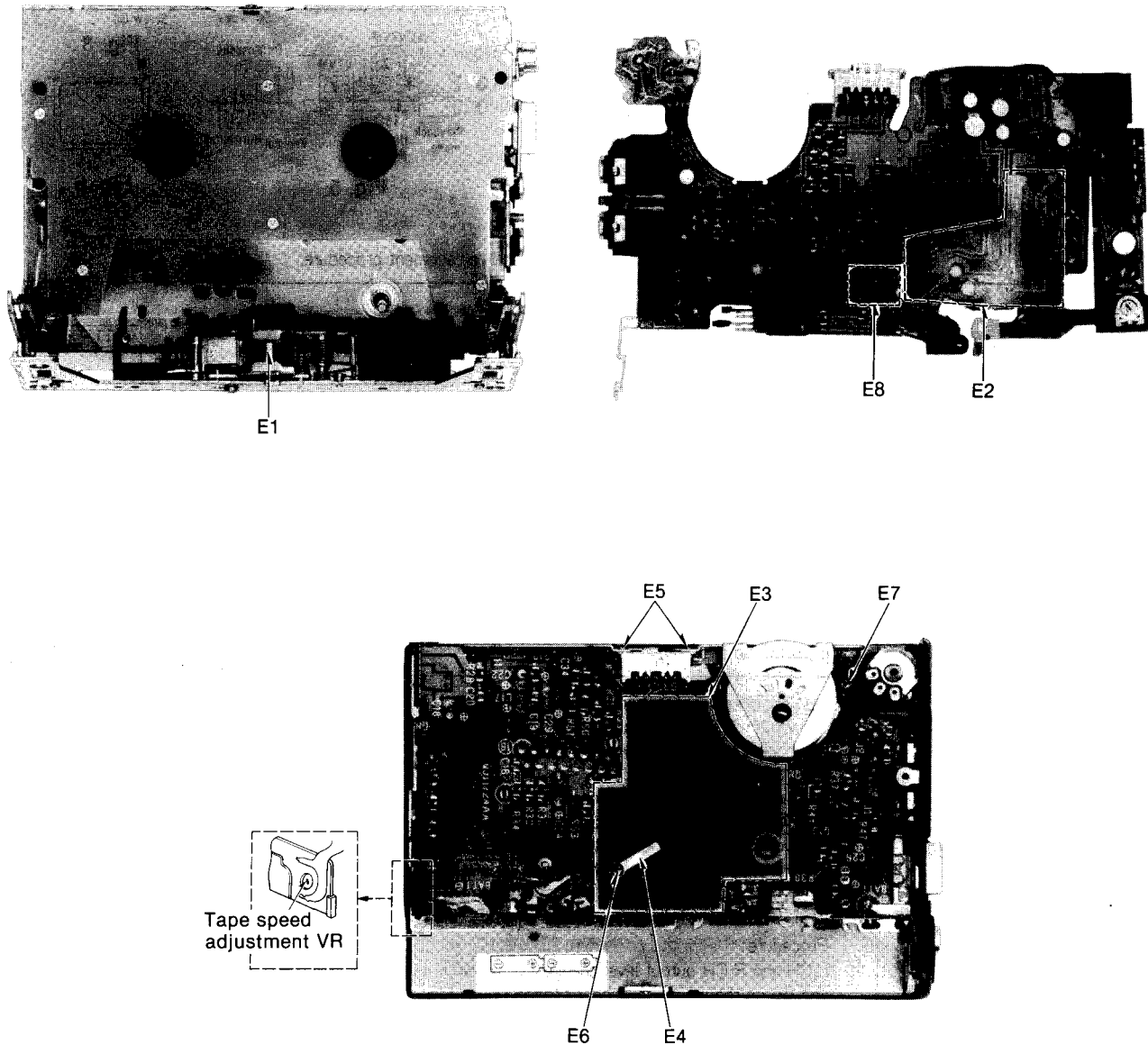
Fig. 2

ITEM	MEASUREMENT & ADJUSTMENT												
	L-CH/R-CH phase adjustment 4. Make connections as shown in fig. 2 and 5. 5. Playback the 8kHz signal from the test tape (QZZCFM). Adjust screw (B) shown in fig. 3 so that pointers of the two VTVMs swing to maximum and a waveform as illustrated in fig. 6 is obtained on the oscilloscope.    Note: Refer to Mechanical Parts Location for head replacement procedure.												
Tape speed accuracy adjustment Condition: • Playback mode Equipment: • Digital electronic counter or frequency counter • Test tape ... QZZCWAT • Stereo M3 plug • Resistor (16Ω)	Tape speed accuracy 1. Test equipment connection is shown in fig. 2 and 7. 2. Playback test tape (QZZCWAT 3,000 Hz), and supply playback signal to frequency counter. 3. Take measurement at middle section of test tape. 4. Measure this frequency. 5. On the basis of 3,000Hz, determine value by following formula: $\text{Tape speed accuracy} = \frac{f - 3,000}{3,000} \times 100 (\%)$ where, f = measured value Standard value: ± 2.5% 6. If measured value is not within standard, adjust tape speed adjustment VR (shown in electrical parts location), so that frequency becomes 3,000 Hz.  Fig. 7												
L-CH/R-CH output balance adjustment Condition: • Playback mode Equipment: • VTVM • Oscilloscope • Test tape ... (QZZCFM) • Stereo M3 plug • Resistor (16Ω)	1. Test equipment connection is shown in fig. 2 and 7. 2. Set volume control to 5 and tape selection switch to normal (Hi). 3. Playback frequency response test tape (QZZCFM), and using VTVM measure the output level at headphones jack. 4. Make measurement for both channels. 5. Check if output level difference between L-CH and R-CH is within 2 dB. L-CH output level = R-CH output level ± 1 dB. If the measurement value do not meet the standard value range, adjust as described below. 6. L-CH, R-CH playback output balance adjustment of RQ-WJ1/KJ1/SJ1 is done by adjusting the gain of the L-CH and R-CH playback amplifier. Procedure: L-CH and R-CH output level changes as shown in table 1 by opening or shorting connection points (A) and (B) on the main circuit board (fig. 8) by soldering. So open or short the connection points so that the output level difference between L-CH, R-CH is minized.  Fig. 8 <table border="1"> <thead> <tr> <th>Connection point (A)</th><th>R-CH output level</th></tr> </thead> <tbody> <tr> <td>Open</td><td>Up</td></tr> <tr> <td>Short</td><td>Down</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Connection point (B)</th><th>L-CH output level</th></tr> </thead> <tbody> <tr> <td>Open</td><td>Up</td></tr> <tr> <td>Short</td><td>Down</td></tr> </tbody> </table> table 1	Connection point (A)	R-CH output level	Open	Up	Short	Down	Connection point (B)	L-CH output level	Open	Up	Short	Down
Connection point (A)	R-CH output level												
Open	Up												
Short	Down												
Connection point (B)	L-CH output level												
Open	Up												
Short	Down												

the M69: cassette
lder assembly to
s grooves (A) and



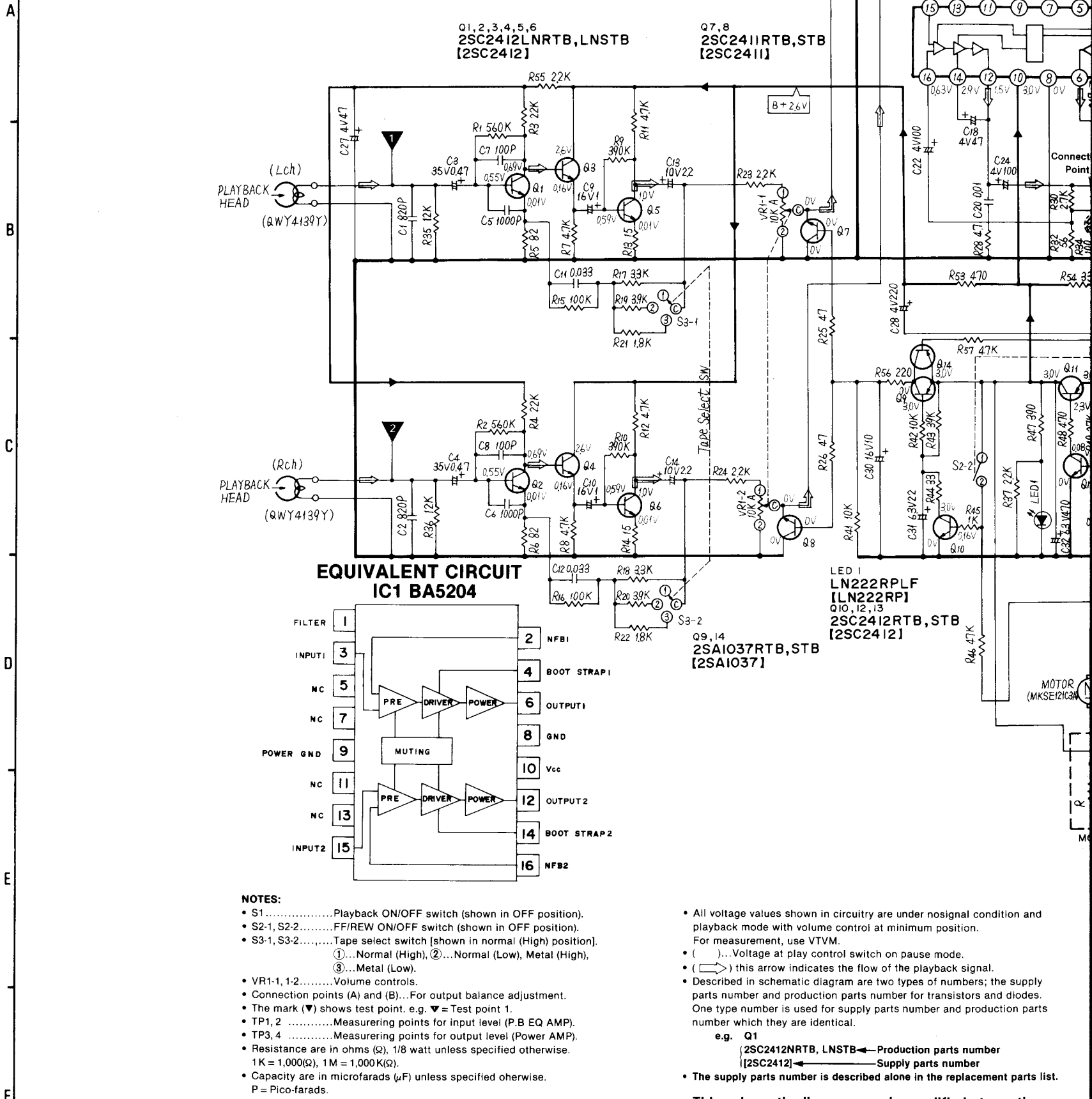
ELECTRICAL PARTS LOCATION



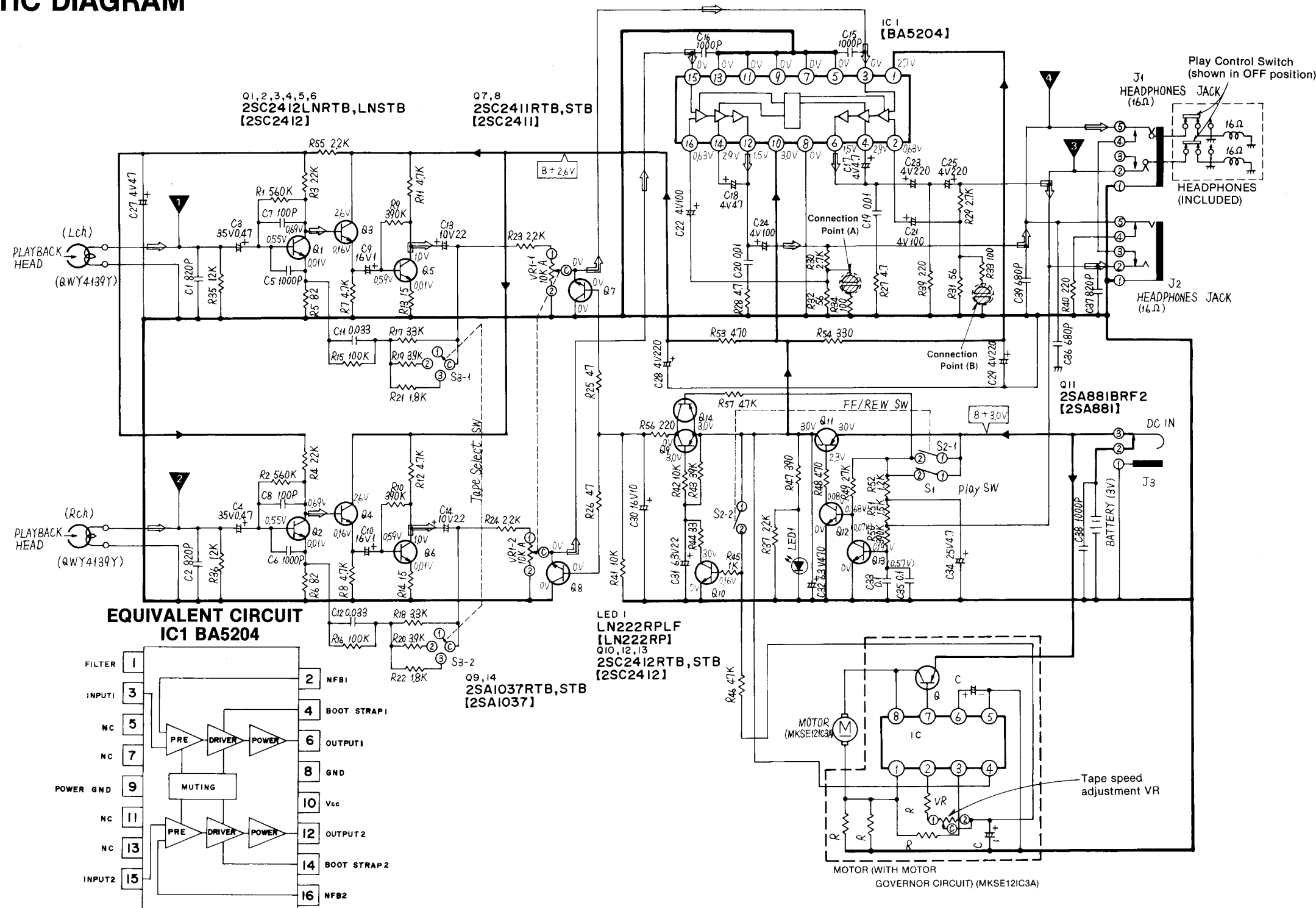
REPLACEMENT PARTS LIST

Ref No.	Part No.	Part Name & Description
ELECTRICAL PARTS		
E1	QWY4139Y	Playback Head
E2	QWY1294	Insulator Sheet
E3	QTS1589	Shield Plate
E4	QTD1258	Lug Terminal
E5	XQN16 + A35FR	Screw $\Phi 1.6 \times 3.5$
E6	XQN16 + C5FR	Screw $\Phi 1.6 \times 5$
E7	XTN2 + 5JFR	Screw $\Phi 2 \times 5$
E8	QWY1305	Insulator Sheet

SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM



NOTES:

- S1.....Playback ON/OFF switch (shown in OFF position).
- S2-1, S2-2.....FF/REW ON/OFF switch (shown in OFF position).
- S3-1, S3-2.....Tape select switch [shown in normal (High) position].
 - ①...Normal (High), ②...Normal (Low), Metal (High),
 - ③...Metal (Low).
- VR1-1, 1-2.....Volume controls.
- Connection points (A) and (B)...For output balance adjustment.
- The mark (▼) shows test point. e.g. ▼= Test point 1.
- TP1, 2.....Measuring points for input level (P.B EQ AMP).
- TP3, 4.....Measuring points for output level (Power AMP).
- Resistance are in ohms (Ω), 1/8 watt unless specified otherwise.
- 1K = 1,000(Ω), 1M = 1,000K(Ω).
- Capacity are in microfarads (μF) unless specified otherwise.
- P = Pico-farads.

- All voltage values shown in circuitry are under nosignal condition and playback mode with volume control at minimum position.
For measurement, use VTVM.
- () ...Voltage at play control switch on pause mode.
- () this arrow indicates the flow of the playback signal.
- Described in schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes. One type number is used for supply parts number and production parts number which they are identical.

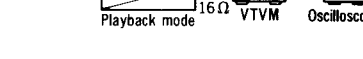
e.g. Q1

{ 2SC2412NRTB, LNSTB	← Production parts number
2SC2412	← Supply parts number

- The supply parts number is described alone in the replacement parts list.

- This schematic diagram may be modified at any time with the development of new technology.

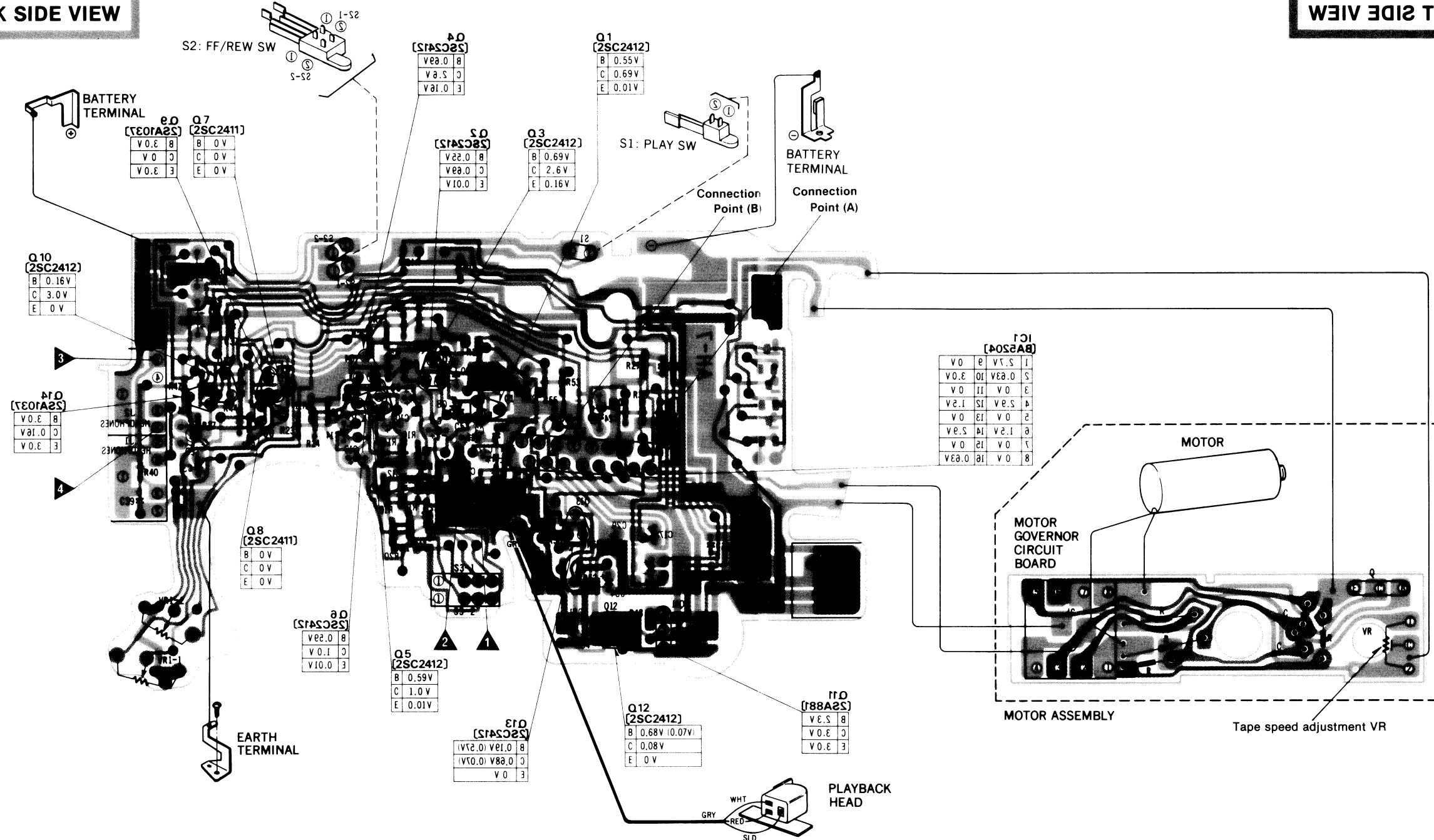
SPECIFICATIONS

Playback frequency response	125 Hz: 0 ± 3 dB 315 Hz: 0 dB 8 kHz: 0 ± 3 dB	
Playback gain	Greater than 0.63 V	

CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

BACK SIDE VIEW

FRONT SIDE VIEW

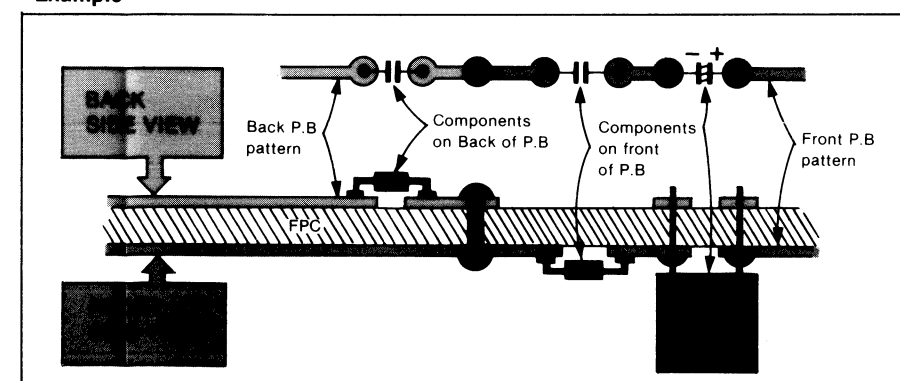


NOTES:

- The circuit shown in on the conductor indicates printed circuit on the back side of the printed circuit board.
- The circuit shown in on the conductor indicates printed circuit on the front side of the circuit board, which is put the mechanism unit.
- Components on back of P.B are identified by black symbols.
- Components on front of P.B are identified by blue symbols.
- The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.
- Voltage values shown in are measured values at the front pattern side of the printed circuit board.
- Voltage values shown in are measured values at the back pattern side of the printed circuit board.
- Values indicates in are DC voltage between the chassis and electrical parts.
- All voltage values shown in circuitry are under nosignal condition and playback mode with volume control at minimum position. For measurement, use VTVM.
- () () ... Voltage at play control switch on pause mode.

This circuit board diagram may be modified at any time with the development of new technology.

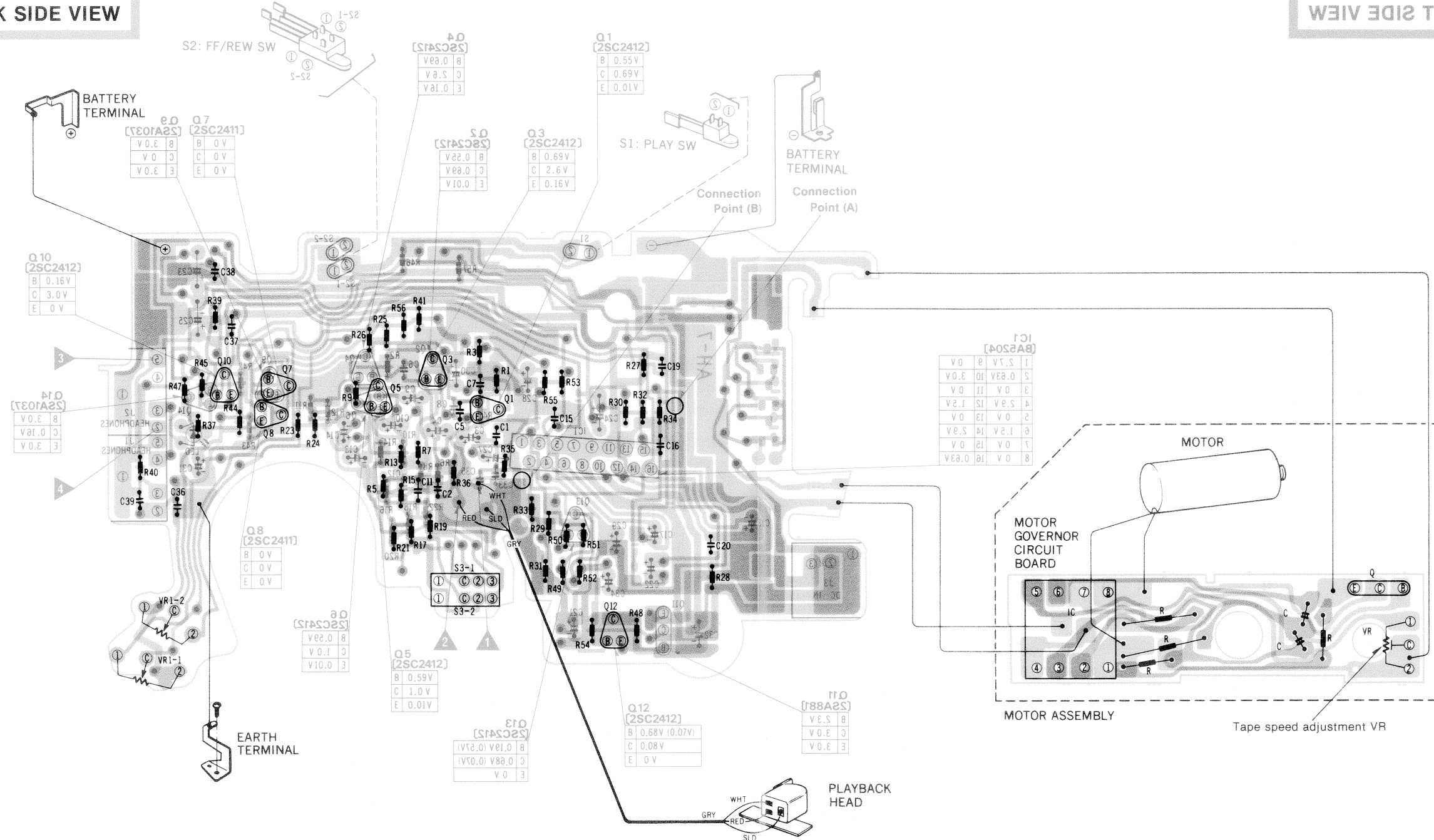
Example



CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

BACK SIDE VIEW

FRONT SIDE VIEW

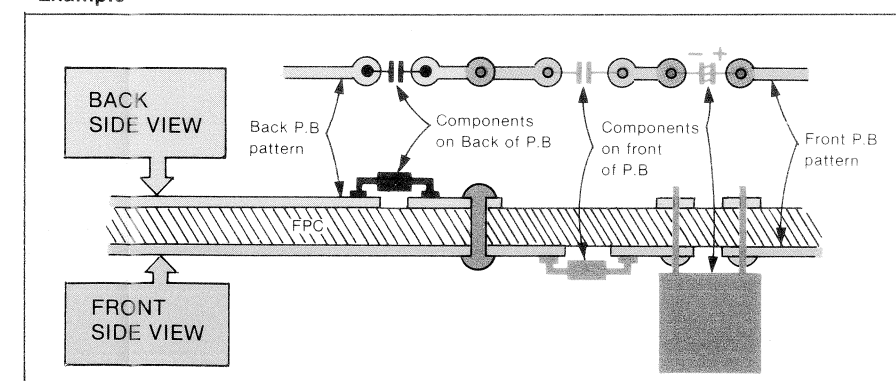


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- Values indicates in are DC voltage between the chassis and electrical parts.
- All voltage values shown in circuitry are under nosignal condition and playback mode with volume control at minimum position.
- For measurement, use VTVM.
- () () ... Voltage at play control switch on pause mode.

• This circuit board diagram may be modified at any time with the development of new technology.

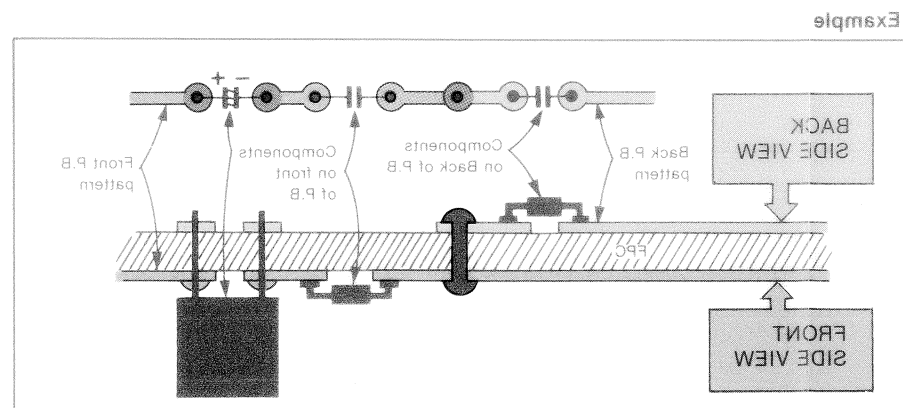
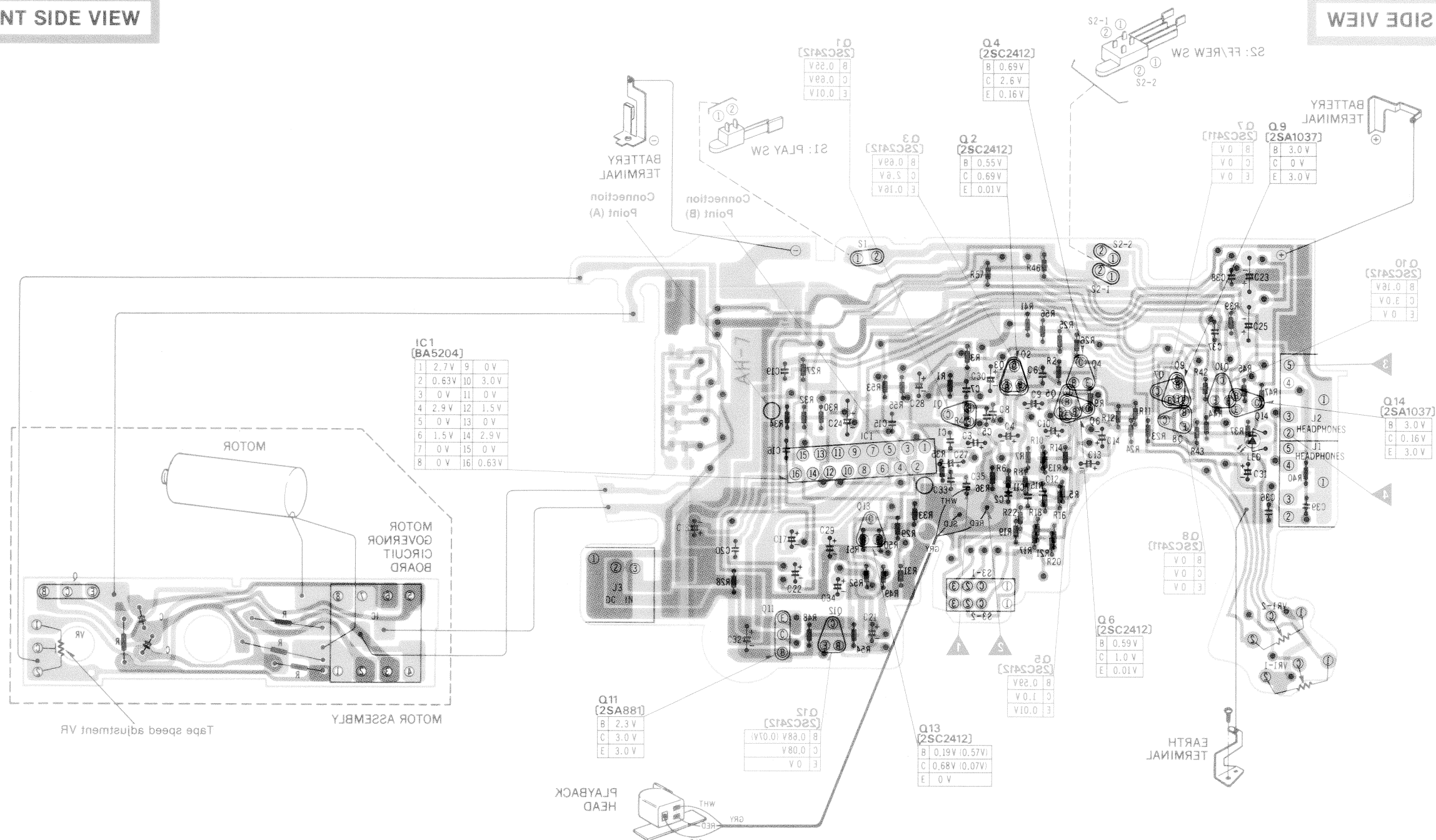
Example



CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

FRONT SIDE VIEW

BACK SIDE VIEW



- With the development of new technology.
- This circuit board designs may be modified at any time
 - () () ... voltage at play control switch no pause mode.
 - For measurement, use MVTV.
 - playback mode with volume control at minimum position.
 - All voltage values shown in circuitry are under normal condition and electrical parts.
 - Values indicated in are DC voltage between the chassis and the printed circuit board.
 - Voltage values shown in are measured values at the back pattern side of the printed circuit board.
 - Voltage values shown in are measured values at the front pattern side between conductors on the front side and back side of the circuit board.
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 - The circuit shown in on the conductor indicates printed circuit on the
- NOTES:

NOTES: RESISTORS

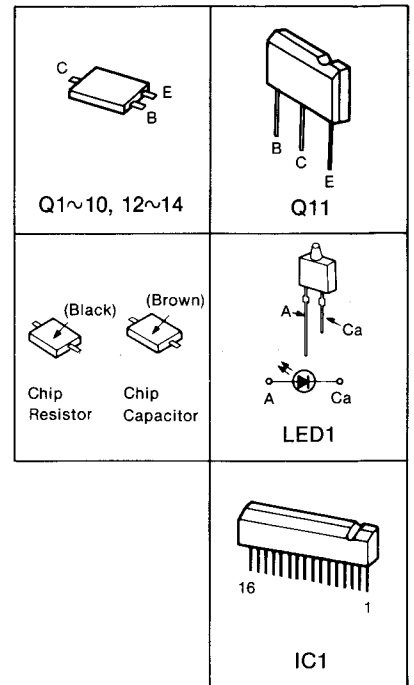
ERD.....Carbon
ERG.....Metal-oxide
ERS.....Metal-oxide
ERO.....Metal-film
ERX.....Metal-film
ERQ.....Fuse type metallic
ERC.....Solid
ERF.....Cement

CAPACITORS

ECBA.....Ceramic
ECG.....Ceramic
ECK.....Ceramic
ECC.....Ceramic
ECF.....Ceramic
ECQM.....Polyester film
ECQE.....Polyester film
ECQF.....Polypropylene

ECE.....Electrolytic
ECEN.....Non polar electrolytic
EQS.....Polystyrene
ECST.....Tantalum
QCS.....Tantalum
CHIP RESISTORS
RRD.....Carbon
CHIP CAPACITORS
QCUD.....Ceramic

TERMINATIONS

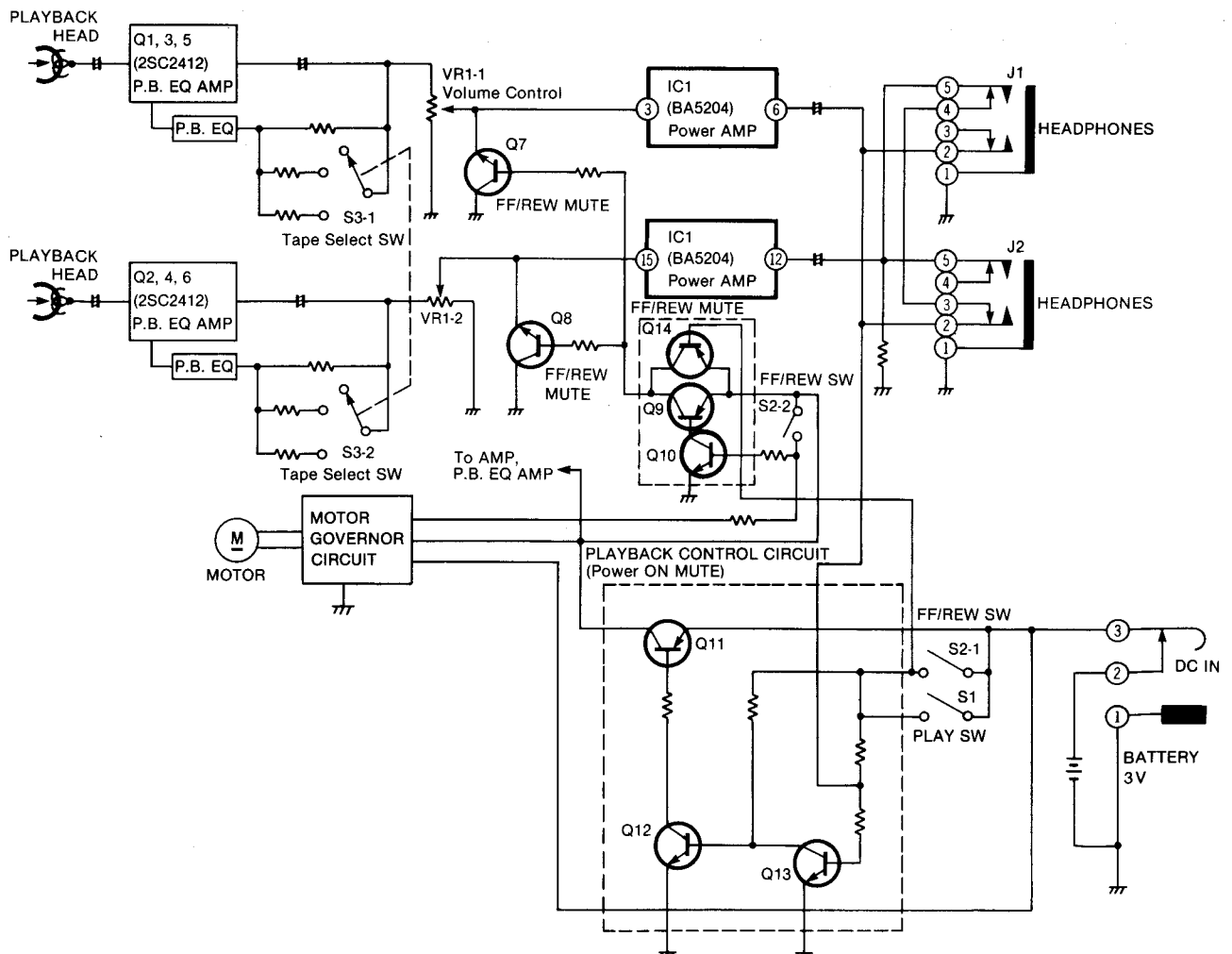


REPLACEMENT PARTS LIST

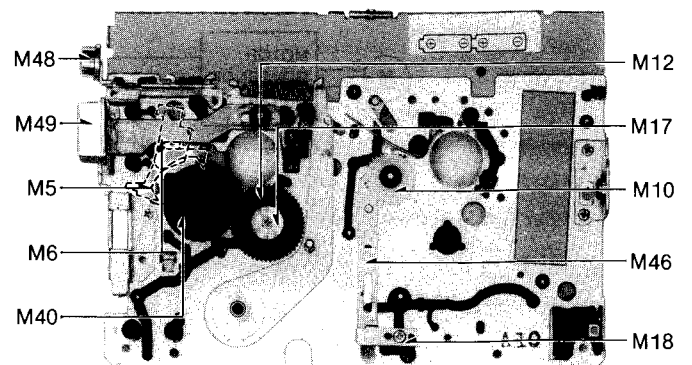
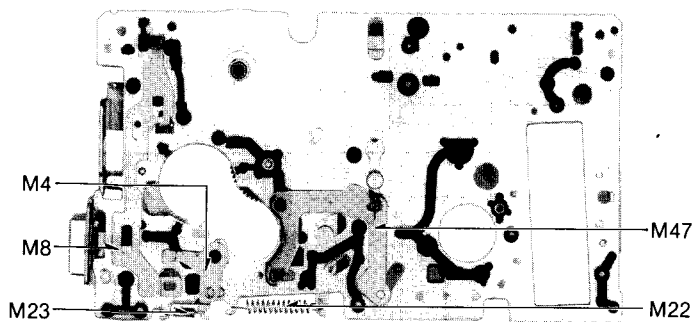
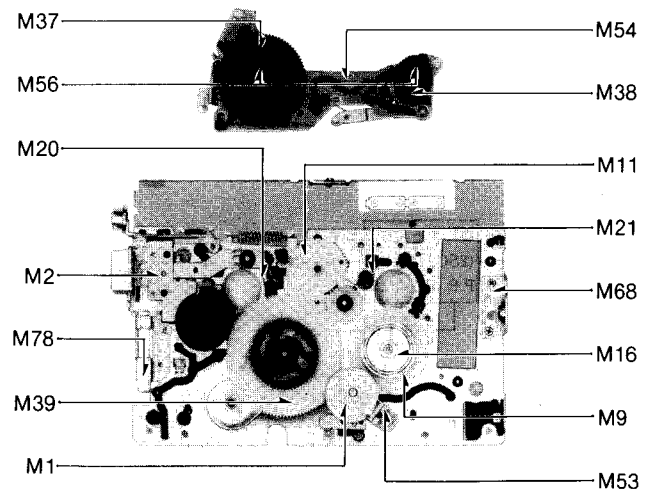
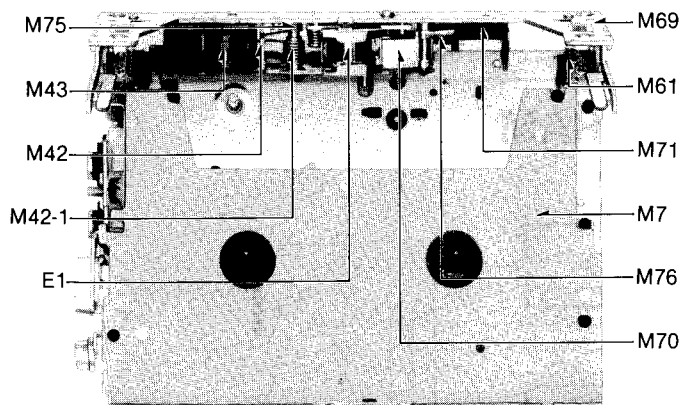
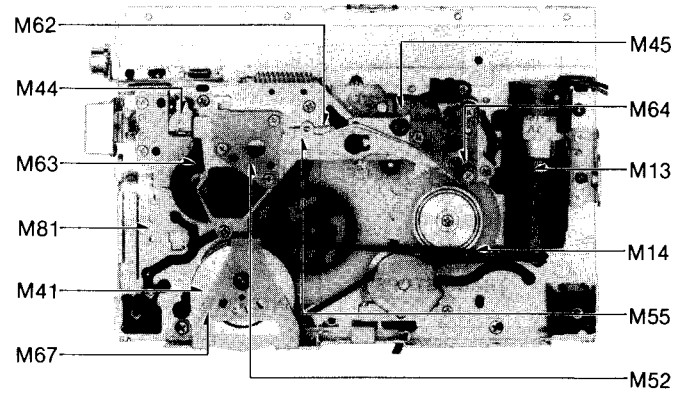
Ref No.	Part No.	Ref No.	Part No.	Ref No.	Part No.	Ref No.	Part No.
RESISTORS				TRANSISTORS			
R1, 2	RRD18XJ564	R51	RRD18XJ152	C31	ECEA0JK220	Q7, 8	2SC2411
R3, 4	RRD18XJ223	R52	RRD18XJ122	C32	ECEA0JV471	Q9	2SA1037
R5, 6	RRD18XJ820	R53	RRD18XJ471	C33	QCUT1E104ZFL	Q10	2SC2412
R7, 8	RRD18XJ472	R54	RRD18XJ331	C34	ECEA1EK4R7	Q11	2SA881
R9, 10	RRD18XJ394	R55	RRD18XJ222	C35	QCUT1E104ZFL	Q12, 13	2SC2412
R11, 12	RRD18XJ472	R56	RRD18XJ221	C36	QCUT1H681MRL	Q14	2SA1037
R13, 14	RRD18XK150	R57	RRD18XJ473	C37	QCUT1H821MRL	LIGHT EMITTING DIODE	
R15, 16	RRD18XJ104	VARIABLE RESISTOR		C38	QCUT1H102MRL	INTEGRATED CIRCUIT	
R17, 18	RRD18XJ332	VR1	EVUCAAT65C14	C39	QCUT1H681MRL	LED1	LN222RP
R19, 20	RRD18XJ392	CAPACITORS					
R21, 22	RRD18XJ182	C1, 2	QCUT1H821MRL	Q1, 2, 3, 4, 5, 6	2SC2412	IC1	BA5204
R23, 24	RRD18XJ222	C3, 4	ECSE1VM474				
R25, 26	RRD18XJ470	C5, 6	QCUT1H102MRL				
R27, 28	RRD18XK4R7	C7, 8	QCUT1H101KCL				
R29, 30	RRD18XJ272	C9, 10	ECSE1CM105				
R31, 32	RRD18XJ560	C11, 12	QCUX1E333KRX				
R33, 34	RRD18XJ101	C13, 14	ECSE1AM225				
R35, 36	RRD18XJ123	C15, 16	QCUT1H102MRL				
R37	RRD18XJ222	C17, 18	ECEA0GK470				
R39, 40	RRD18XJ221	C19	QCUT1H103MRL				
R41, 42	RRD18XJ103	C20	QCUT1H103MRL				
R43	RRD18XJ393	C21, 22	ECEA0GK101				
R44	RRD18XK330	C23	ECEA0GK221				
R45	RRD18XJ102	C24	ECEA0GK101				
R46	RRD18XJ473	C25	ECEA0GK221				
R47	RRD18XJ391	C27	ECEA0GK470				
R48	RRD18XJ471	C28, 29	ECEA0GK221				
R49	RRD18XJ273	C30	ECEA1CK100				
R50	RRD18XJ394						

Ref No.	Part No.	Part Name & Description
SWITCHES		
S1	QSB0278	Leaf Switch [Playback ON/OFF (refer to M15)]
S2	QSB0279	Leaf Switch [FF/REW ON/OFF (refer to M84)]
S3	QSS2305	Slide Switch (Tape Selector)
JACKS		
J1, 2	QJA0183	Headphones Jack
J3	QJA0169	DC in Jack

BLOCK DIAGRAM

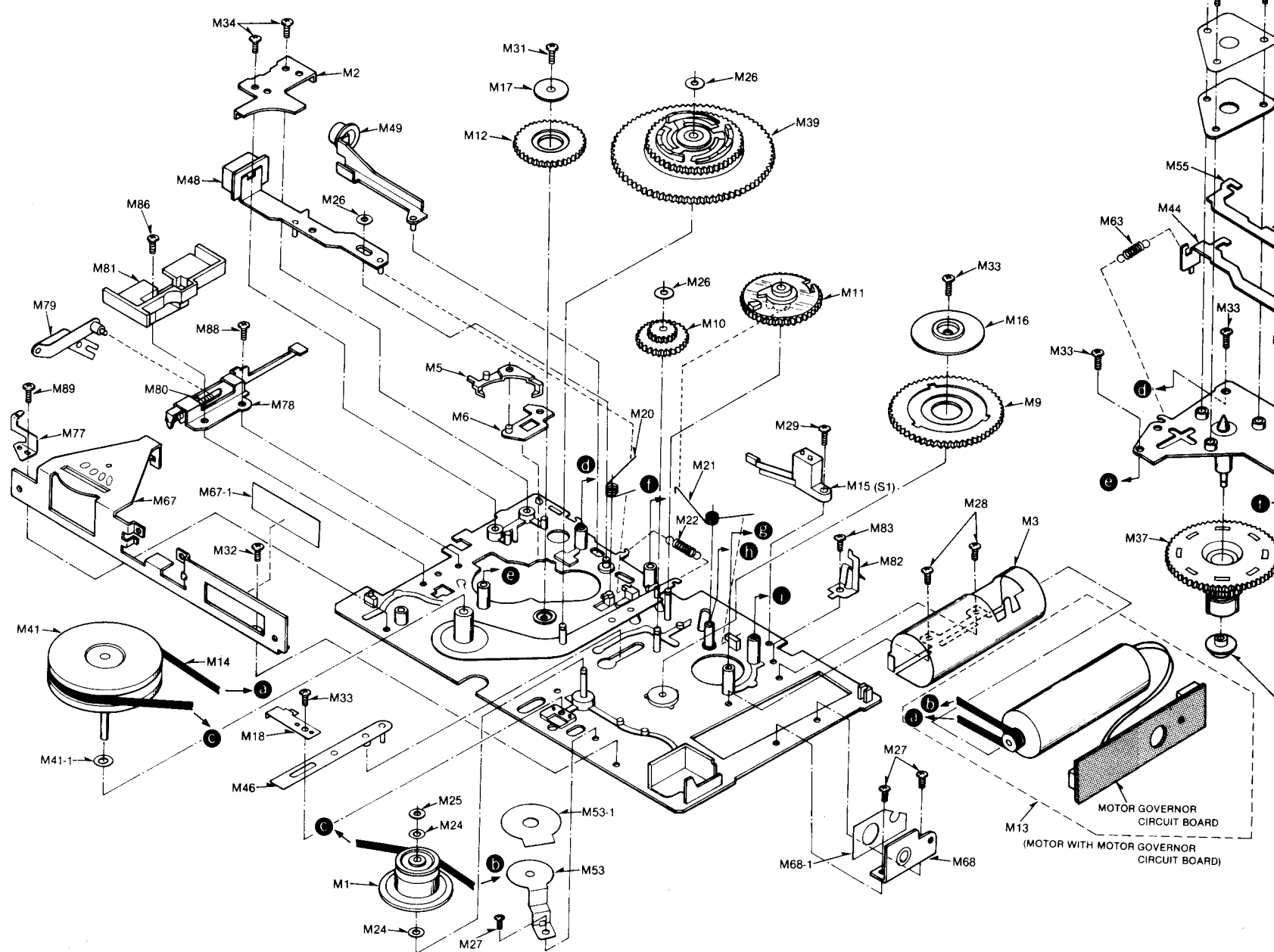
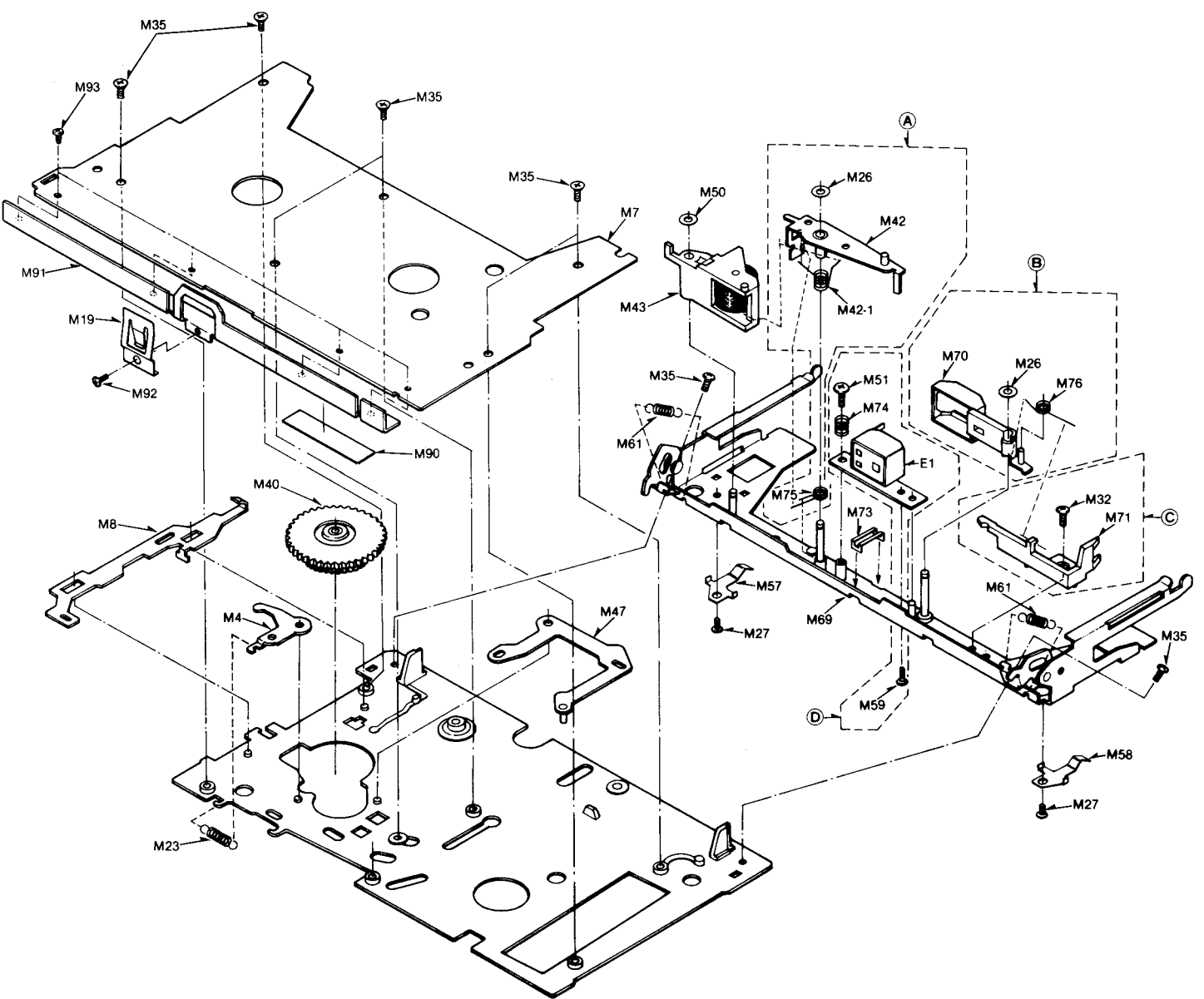


MECHANICAL PARTS LOCATION



MECHANICAL PARTS LOCATION

(TOP VIEW)



Head replacement
To replace the head, disassemble the parts in the head area as described below.

1. Remove block (A) (M26 snap washer, M42 main arm assembly, M42-1 pressure roller spring, M75 pressure roller release spring).
2. Remove block (B) (M26 snap washer, M76 rod shifter spring, M70 rod shifter lever).
3. Remove block (C) (M32 screw, M71 tape guide).
4. Remove block (D) (M51 screw, M74 head spring, M59 screw, E1 playback head).

• To install the head, reverse the above procedure.
(Assemble so that the head leads are fixed with M71 tape guide as shown in Fig. A.)

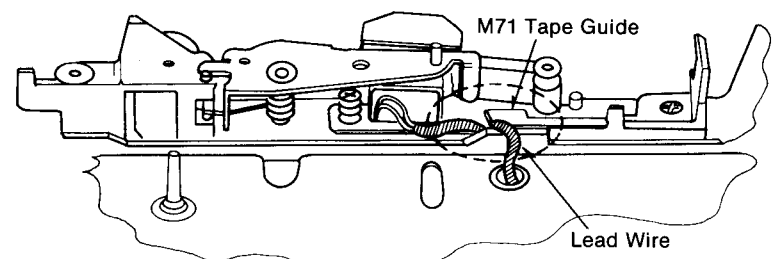
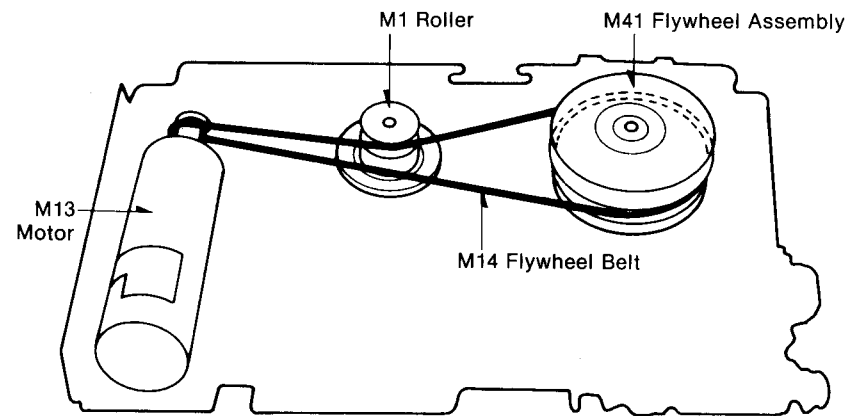


Fig. A

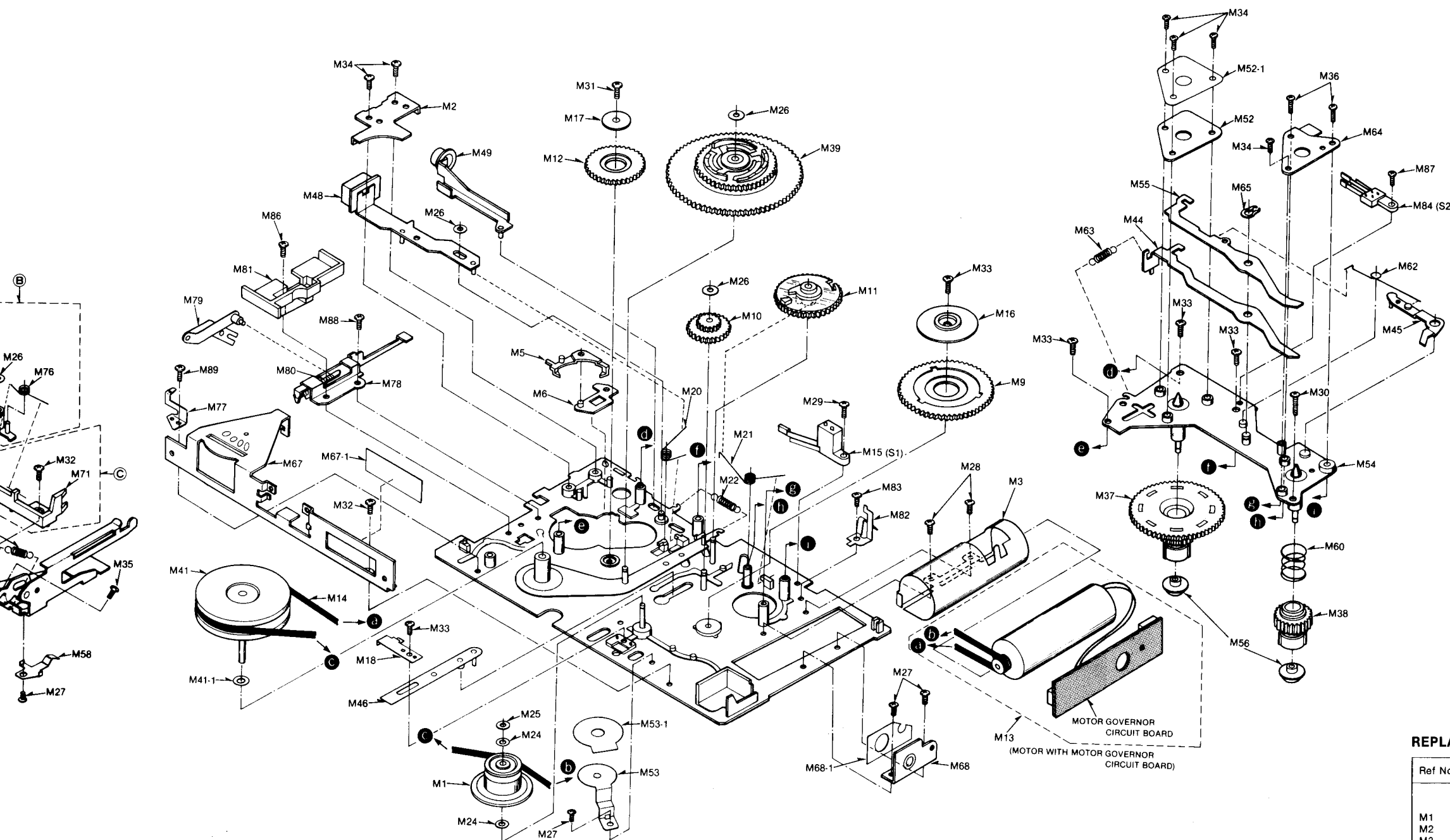
BELT LOCATION



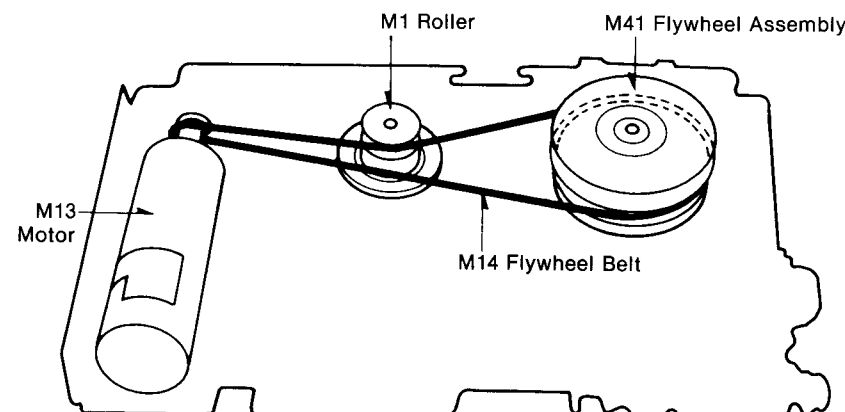
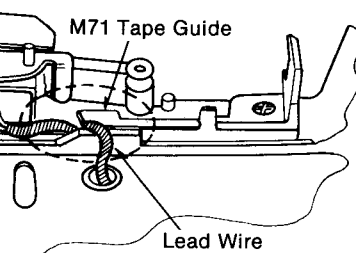
SPECIFICATIONS

Pressure of pressure roller	
Takeup tension	
• Use cassette torque meter	... QZZSRKCT
Wow and flutter: JIS	
• Use test tape	... QZZCWAT

(REAR VIEW)



BELT LOCATION



SPECIFICATIONS

Pressure of pressure roller	180 ± 30 g
Takeup tension * Use cassette torque meter ... QZZSRKCT	35 +10 -15 g-cm
Wow and flutter: JIS * Use test tape ... QZZCWAT	Less than 0.45 % (RMS)

NOTES: [WJ1]...RQ-WJ1, [KJ1]...RQ-KJ1,
[SJ1]...RQ-SJ1.

Ref No.	Part No.	Part Name & Description
M24	QBW2101	Poly Washer
M25	QBW2030	Snap Washer
M26	QBW2008	Snap Washer
M27	XQN16 + A16	Screw $\varnothing 1.6 \times 1.6$
M28	XQN16 + A25FZ	Screw $\varnothing 1.6 \times 2.5$
M29	XQN16 + A35	Screw $\varnothing 1.6 \times 3.5$
M30	XQN16 + A85	Screw $\varnothing 1.6 \times 8.5$
M31	XQS16 + A25	Screw $\varnothing 1.6 \times 2.5$
M32	XQN2 + A2	Screw $\varnothing 1.6 \times 2$
M33	XTNQ16C3J	Tapping Screw $\varnothing 1.6 \times 3$
M34	XTSQ16A3J	Tapping Screw $\varnothing 1.6 \times 3$
M35	XTSQ16A3JFC	Tapping Screw $\varnothing 1.6 \times 3$
M36	XTSQ16A6J	Tapping Screw $\varnothing 1.6 \times 6$
M37	QXD0140	Takeup Reel Table Assembly
M38	QXD0141	Supply Reel Table Assembly
M39	QXG1067	Main Gear Assembly
M40	QXG1068	Auto-Stop Gear Assembly
M41	QXF0201	Flywheel Assembly
M41-1	QBW2021	Poly Washer
M42	QXL1551	Main Arm Assembly
M42-1	QBN1911	Pressure Roller Spring
M43	QXL1552	Arm Assembly
M44	QXL1553	Lock Arm Assembly
M45	QXL1554	Rewind Lever Assembly
M46	QXL1555	Connection Rod Assembly
M47	QXL1556	Playback Lever Assembly
M48 (WJ1)	QXL1558	Playback Rod Assembly
M48 (SJ1)	QXL1558	Playback Rod Assembly
M48 (KJ1)	QXL1564	Playback Rod Assembly
M49 (WJ1)	QXL1559	Stop Rod Assembly
M49 (SJ1)	QXL1559	Stop Rod Assembly
M49 (KJ1)	QXL1565	Stop Rod Assembly
M50	QBW2007	Washer
M51	QHQ1293	Screw
M52	QXK2634	Base Plate-R Assembly
M52-1	QTW1298	Insulator Plate-E
M53	QXK2635	Roller Cover Assembly
M53-1	QTW1299	Insulator Plate-F
M54	QXK2669	Lower Base Plate Assembly
M55	QML3912	Sub Lever
M56	QMB1395	Reel Table Cap
M57	QBP1958	Holder Spring-R
M58	QBP1957	Holder Spring-L
M59	QHQ1312	Screw
M60	QBC1418	Back Tension Spring
M61	QBT1970	Cassette Holder Spring
M62	QBN1914	Sub Arm Spring
M63	QBT1969	Lock Arm Release Spring
M64	QMF2250	Thrust Plate-L
M65	XUB25FT	Stop Ring
M67	QXA1266	Switch Angle Assembly
M67-1	QTW1296	Insulator Plate-C
M68	QXA1267	Back Holding Angle Assembly
M68-1	QTW1295	Insulator Plate-B
M69	QXH0416	Cassette Holder Assembly
M70	QML3918	Pad Shifter Lever
M71	QMG0110	Tape Guide
M73	QMZ1291	Head Spacer
M74	QBC1422	Head Spring
M75	QBN1912	Pressure Roller Release spring
M76	QBN1913	Pad Shifter Spring
M77	QJC0058	Earth Terminal
M78	QMA4453	Eject Angle
M79	QXH0418	Eject Angle Assembly
M80	QBN7013	Eject Spring
M81	QKJ0559	Jack Holder
M82	QJC0056	Terminal
M83	XQN16 + A16FR	Screw $\varnothing 1.6 \times 1.6$
M84	refer to S2	Leaf Switch
M86	XQN16 + A3	Screw $\varnothing 1.6 \times 3$
M87	XQN16 + A35FR	Screw $\varnothing 1.6 \times 3.5$
M88	XQN16 + A2	Screw $\varnothing 1.6 \times 2$
M89	QHQ1332	Screw
M90	QCC1909	Label
M91	QMA4515	Cassette Angle
M92	XQN12 + A12	Screw $\varnothing 1.2 \times 1.2$
M93	XQS16 + A2FC	Screw $\varnothing 1.6 \times 2$

REPLACEMENT PARTS LIST

Ref No.	Part No.	Part Name & Description
MECHANICAL PARTS		
M1	QXP0639	Roller
M2	QMF2252	Auto-Stop Angle
M3	QMA4441	Motor Holding Angle
M4	QML3914	Stop Release Lever
M5	QML3905	Auto-Stop Detection Lever
M6	QML3906	Auto-Stop Release Lever
M7	QMF2272	Upper Base Plate
M8	QMR2023	Eject Release Rod
M9	QDG1259	Rewind Connection Gear
M10	QDG1260	Sub Connection Gear
M11	QDG1261	Driver Gear
M12	QDG1270	Auto-Stop Intermediate Gear
M13	MKSE121C3A	DC Motor Assembly (with motor governor circuit board)
M14	QDB0325	Flywheel Belt
M15	refer to S1	Leaf Switch
M16	QMB1406	Connection Gear Guide
M17	QMG0113	Auto-Stop Intermediate Guide
M18	QBP1959	Connection Rod Holding Spring
M19	QBP1956	Cassette Holder Plate
M20	QBN1915	Play Rod Spring
M21	QBN1916	Driving Gear Spring
M22	QBT1928	Fast Forward Arm Back Spring
M23	QBT1971	Stop Release Lever Spring

CABINET PARTS LOCATION

REPLACEMENT PARTS LIST

RQ-WJ1

Ref No.	Part No.	Part Name & Description
CABINET PARTS		
G1	QKF4045	Battery Cover
G2	QGT1600A	Volume Knob
G3	QKJ0555	Cap
G4	QKJ0555	Jack Ornament
G5	QMA4451	Jack Holding Angle
G7	XQN16 + A14	Screw $\phi 1.6 \times 1.4$
G8	QHQ1326W	Ornament Screw-A
G9	QHQ1328S	Ornament Screw-B
G10	XQN17 + C45FC	Screw $\phi 1.7 \times 4.5$
G11 [DB]	QGS3040	Main Name Plate
[AN]	QGS3047	Main Name Plate
G12	XQN16 + A2FW	Screw $\phi 1.6 \times 2$
G13	QYM0854	Bottom Case Assembly
G13-1	QBN8032	Battery Terminal
G13-2	QMF2256	Switch Angle
G13-3	QGT1601	Switch Knob
G13-4	QTH1176	Heat Sink
G13-5	QTW1306	Insulator
G14	QYP1114	Jack Board Assembly
G14-1	QJB0172	Battery Terminal
G15 [DB]	QYF0574	Cassette Lid Assembly
[AN]	QYF0578	Cassette Lid Assembly

RQ-KJ1

Ref No.	Part No.	Part Name & Description
CABINET PARTS		
G1 [D]	QKF4045S	Battery Cover
[BAN]	QKF4045K	Battery Cover
G2 [D]	QGT1600U	Volume Knob
[BAN]	QGT1600U	Volume Knob
G3 [D]	QKJ0555S	Cap
[BAN]	QKJ0555K	Cap
G4	QKJ0553	Jack Ornament
G5	QMA4451	Jack Holding Angle
G7	XQN16 + A14	Screw $\phi 1.6 \times 1.4$
G8	QHQ1326	Ornament Screw-A
G9 [N]	QHQ1328S	Ornament Screw-B
[DBA]	QHQ1328K	Ornament Screw-B
G10	XQN17 + C45FC	Screw $\phi 1.7 \times 4.5$
G11 [DB]	QGS3042	Main Name Plate
[AN]	QGS3049	Main Name Plate
G12	XQN16 + A2FZ	Screw $\phi 1.6 \times 2$
G13	QYM0857	Bottom Case Assembly
G13-1	QBN8032	Battery Terminal
G13-2	QMF2256	Switch Angle
G13-3	QGT1601U	Switch Knob
G13-4	QTH1176	Heat Sink
G13-5	QTW1306	Insulator
G14	QYP1114K	Jack Board Assembly
G14-1	QJB0172	Battery Terminal
G15 [DB]	QYF0577	Cassette Lid Assembly
[AN]	QYF0580	Cassette Lid Assembly

RQ-SJ1

Ref No.	Part No.	Part Name & Description
CABINET PARTS		
G1 [D]	QKF4045K	Battery Cover
[BAN]	QKF4045S	Battery Cover
G2 [D]	QGT1600U	Volume Knob
[BAN]	QGT1600U	Volume Knob
G3 [D]	QKJ0555K	Cap
[BAN]	QKJ0555S	Cap
G4	QKJ0553	Jack Ornament
G5	QMA4451	Jack Holding Angle
G7	XQN16 + A14	Screw $\phi 1.6 \times 1.4$
G8	QHQ1326	Ornament Screw-A
G9 [N]	QHQ1328K	Ornament Screw-B
[DBA]	QHQ1328S	Ornament Screw-B
G10	XQN17 + C45FC	Screw $\phi 1.7 \times 4.5$
G11 [DB]	QGS3041	Main Name Plate
[AN]	QGS3048	Main Name Plate
G12	XQN16 + A2FC	Screw $\phi 1.6 \times 2$
G13	QYM0856	Bottom Case Assembly
G13-1	QBN8032	Battery Terminal
G13-2	QMF2256	Switch Angle
G13-3	QGT1601	Switch Knob
G13-4	QTH1176	Heat Sink
G13-5	QTW1306	Insulator
G14	QYP1114S	Jack Board Assembly
G14-1	QJB0172	Battery Terminal
G15 [DB]	QYF0576	Cassette Lid Assembly
[AN]	QYF0579	Cassette Lid Assembly

HEADPHONES PARTS LOCATION

REPLACEMENT PARTS LIST

RQ-WJ1

Ref No.	Part No.	Part Name & Description
HEADPHONES		
A1 [DB]	RP9527XPCW	Stereo Headphones Assembly
[AN]	RP9527W	Stereo Headphones Assembly
A1-1 [DB]	EAHMH039AF	Headphones Band Assembly
[AN]	EAHMH039AC	Headphones Band Assembly
A1-2	EAHEAS2P03SF	Speaker
A1-3	EAHMP021A	Baffle-L
A1-4	EAHMP021B	Baffle-R
A1-5	EAHME121F	Ear Pad
A1-6	EAHMZ231	Label
A1-7 [DB]	EAHMNN011E	Headphones Cord
[AN]	EAHMNN011C	Headphones Cord
A1-7-1	EAHE15HR14B	Holder
A1-8	EAHMZ0252A	Tube

RQ-KJ1

Ref No.	Part No.	Part Name & Description
HEADPHONES		
A1 [DB]	RP9527XPCW	Stereo Headphones Assembly
[AN]	RP9527K	Stereo Headphones Assembly
A1-1 [DB]	EAHMH039AE	Headphones Band Assembly
[AN]	EAHMH039AA	Headphones Band Assembly
A1-2	EAHEAS2P03SF	Speaker
A1-3	EAHMP021A	Baffle-L
A1-4	EAHMP021B	Baffle-R
A1-5	EAHME121D	Ear Pad
A1-6	EAHMZ231	Label
A1-7 [DB]	EAHMNN011D	Headphones Cord
[AN]	EAHMNN011A	Headphones Cord
A1-7-1	EAHE15HR14	Holder
A1-8	EAHMZ0252A	Tube

RQ-SJ1

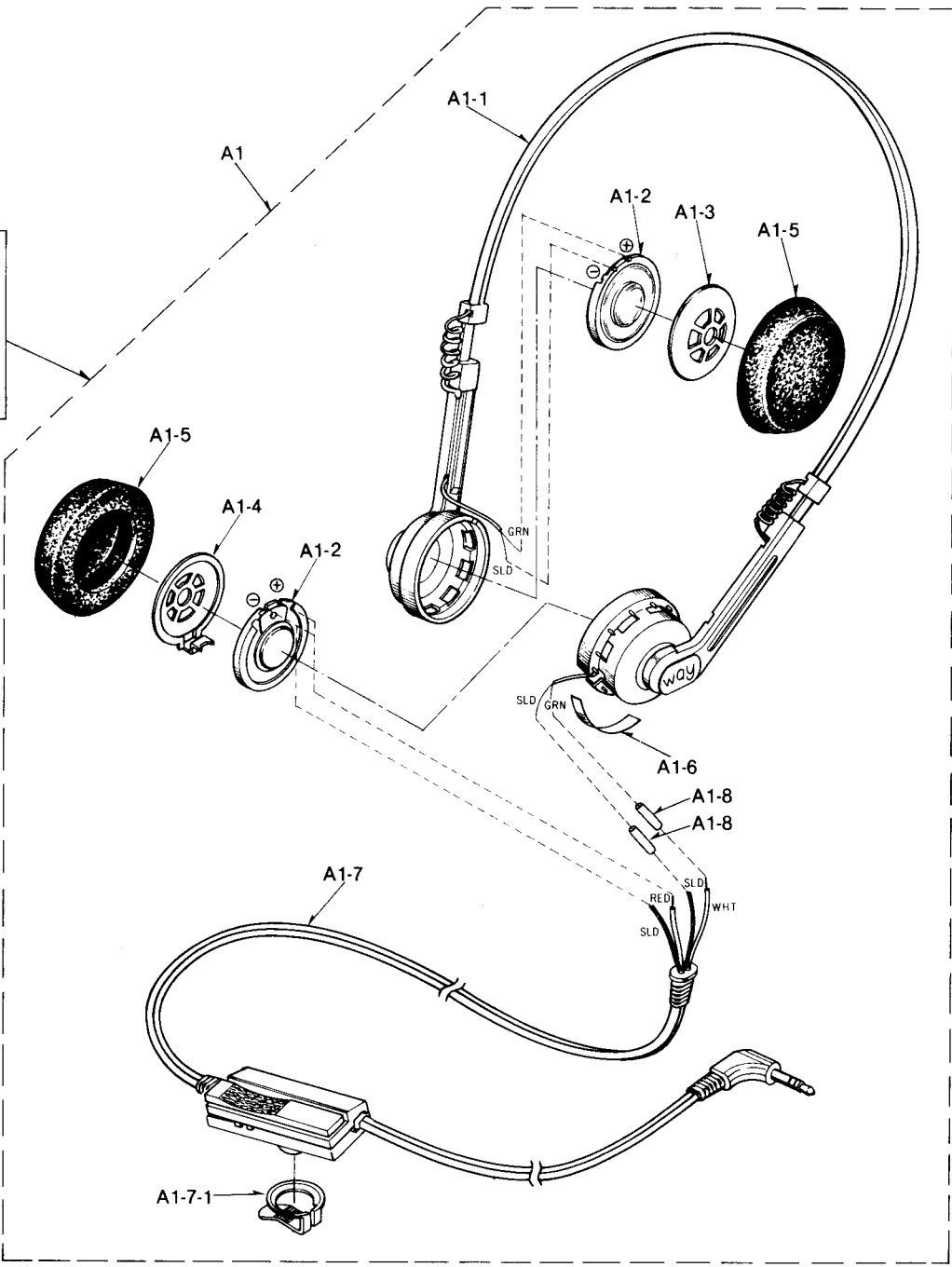
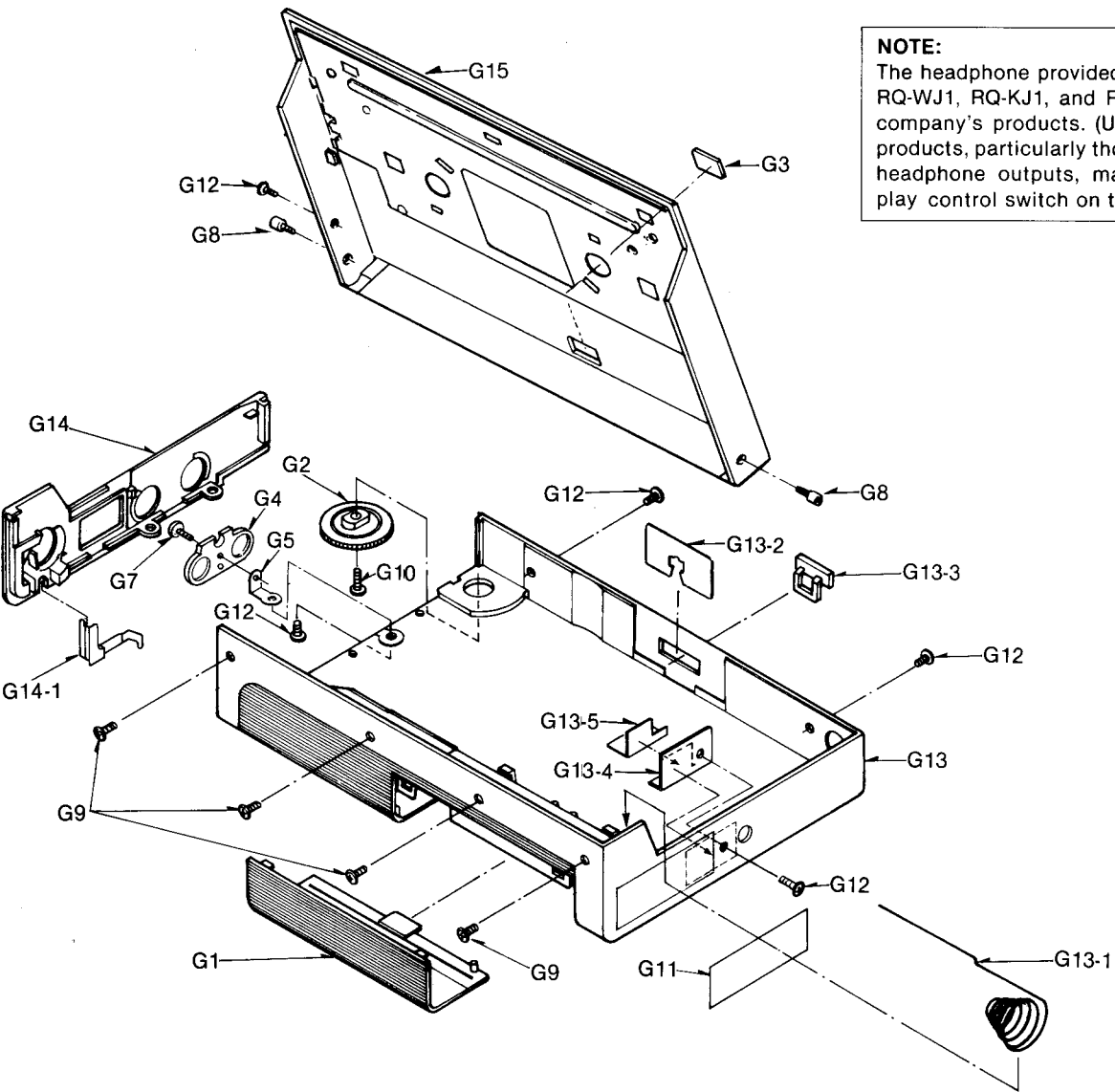
Ref No.	Part No.	Part Name & Description
HEADPHONES		
A1 [DB]	RP9527XPCS	Stereo Headphones Assembly
[AN]	RP9527S	Stereo Headphones Assembly
A1-1 [DB]	EAHMH039AD	Headphones Band Assembly
[AN]	EAHMH039AB	Headphones Band Assembly
A1-2	EAHEAS2P03SF	Speaker
A1-3	EAHMP021A	Baffle-L
A1-4	EAHMP021B	Baffle-R
A1-5	EAHME121E	Ear Pad
A1-6	EAHMZ231	Label
A1-7 [DB]	EAHMNN011C	Headphones Cord
[AN]	EAHMNN011A	Headphones Cord
A1-7-1	EAHE15HR14A	Holder
A1-8	EAHMZ0252A	Tube

COMPONENTS

REPLACEMENT PARTS LIST

RQ-WJ1

Ref No.	Part No.	Part Name & Description
ACCESSORIES		
A1 [DB]	RP9527XPCW	Stereo Headphones Assembly
[AN]	RP9527W	Stereo Headphones Assembly
A2 [DB]	QQT3360	Headphones Band Assembly
[AN]	QQT3361	Headphones Band Assembly
A3 [DB]	QYF0569K	Headphones Band Assembly
[AN]	QYF0569W	Headphones Band Assembly
A4 [DB]	QYQ0317K	Headphones Band Assembly
[AN]	QYQ0317W	Headphones Band Assembly
A5 [DB]	QZC0019K	Headphones Band Assembly
[AN]	QZC0019W	Headphones Band Assembly
A6 [AN]	QFTC07L017NZ	Headphones Band Assembly
A7 [AN]	QYD1032W	Headphones Band Assembly
PACKAGING		
P1 [DB]	QPN4362	Headphones Band Assembly
[AN]	QPN4365	Headphones Band Assembly
P2	QPA0690	Headphones Band Assembly
P3	QPC0089	Headphones Band Assembly
P4	QPS0643D	Headphones Band Assembly
P5	QPA0684	Headphones Band Assembly
P6 [DB]	QPA0685	Headphones Band Assembly
P7	QPW1225	Headphones Band Assembly



HEADPHONES PARTS LOCATION

REPLACEMENT PARTS LIST

RQ-WJ1

Ref No.	Part No.	Part Name & Description
HEADPHONES		
A1	[DB] RP9527XPCW	Stereo Headphones Assembly
	[AN] RP9527W	Stereo Headphones Assembly
A1-1	[DB] EAHMHH039AF	Headphones Band Assembly
	[AN] EAHMHH039AC	Headphones Band Assembly
A1-2	EAHEAS2P03SF	Speaker
A1-3	EAHMP021A	Baffle-L
A1-4	EAHMP021B	Baffle-R
A1-5	EAHME121F	Ear Pad
A1-6	EAHMZ231	Label
A1-7	[DB] EAHMNN011E	Headphones Cord
	[AN] EAHMNN011C	Headphones Cord
A1-7-1	EAHE15HR14B	Holder
A1-8	EAHMZ0252A	Tube

RQ-KJ1

Ref No.	Part No.	Part Name & Description
HEADPHONES		
A1	[DB] RP9527XPCW	Stereo Headphones Assembly
	[AN] RP9527K	Stereo Headphones Assembly
A1-1	[DB] EAHMHH039AE	Headphones Band Assembly
	[AN] EAHMHH039AA	Headphones Band Assembly
A1-2	EAHEAS2P03SF	Speaker
A1-3	EAHMP021A	Baffle-L
A1-4	EAHMP021B	Baffle-R
A1-5	EAHME121D	Ear Pad
A1-6	EAHMZ231	Label
A1-7	[DB] EAHMNN011D	Headphones Cord
	[AN] EAHMNN011	Headphones Cord
A1-7-1	EAHE15HR14	Holder
A1-8	EAHMZ0252A	Tube

RQ-SJ1

Ref No.	Part No.	Part Name & Description
HEADPHONES		
A1	[DB] RP9527XPCS	Stereo Headphones Assembly
	[AN] RP9527S	Stereo Headphones Assembly
A1-1	[DB] EAHMHH039AD	Headphones Band Assembly
	[AN] EAHMHH039AB	Headphones Band Assembly
A1-2	EAHEAS2P03SF	Speaker
A1-3	EAHMP021A	Baffle-L
A1-4	EAHMP021B	Baffle-R
A1-5	EAHME121E	Ear Pad
A1-6	EAHMZ231	Label
A1-7	[DB] EAHMNN011C	Headphones Cord
	[AN] EAHMNN011A	Headphones Cord
A1-7-1	EAHE15HR14A	Holder
A1-8	EAHMZ0252A	Tube

NOTES: [D]...For all European areas except United Kingdom.
[B]...For United Kingdom.
[N]...For Asia, Latin America, Middle East and Africa areas.
[A]...For Australia.

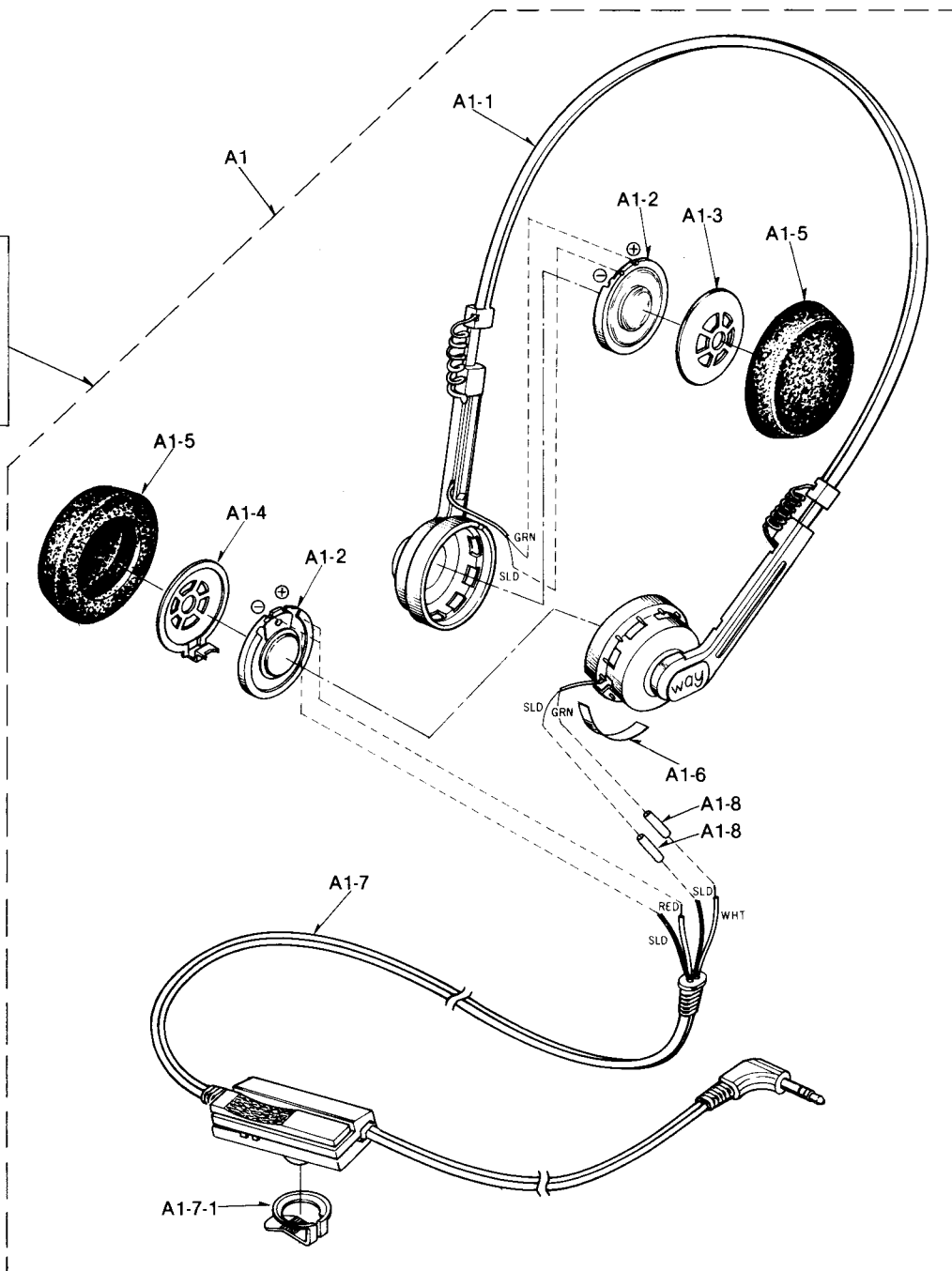
11

Part Name & Description

PARTS

ery Cover
ery Cover
ime Knob
ime Knob
Ornament
k Holding Angle
w $\Phi 1.6 \times 1.4$
ament Screw-A
ament Screw-B
ament Screw-B
w $\Phi 1.7 \times 4.5$
h Name Plate
h Name Plate
w $\Phi 1.6 \times 2$
om Case Assembly
ery Terminal
ch Angle
ch Knob
t Sink
lator
Board Assembly
ery Terminal
ette Lid Assembly
ette Lid Assembly

provided is designed exclusively for the Panasonic UJ1, and RQ-SJ1 and should not be used with other ducts. (Using the headphone with other company's cularly those without built-in protection circuits at the outputs, may damage the output circuits, when the witch on the headphones is operated.)



NOTES:
BLK Black
BLU Blue
BRN Brown
GRY Gray
GRN Green
L.BLU ...Light Blue
NIL No Color Mark
ORG Orange
PNK Pink
RED Red
SLD Shield Wire
VLT Violet
WHT White
YEL Yellow

G13-1

RQ-WJ1/KJ1/SJ1 RQ-WJ1/KJ1/SJ1

COMPONENT PACKINGS

REPLACEMENT PARTS LIST

RQ-WJ1

Ref No.	Part No.	Part Name & Description
ACCESSORIES		
A1	[DB] RP9527XPCW	Stereo Headphones Assembly
	[AN] RP9527W	Stereo Headphones Assembly
A2	[DB] QQT3360	Instruction Book
	[AN] QQT3361	Instruction Book
A3	[DB] QYF0569K	Unit Holder Assembly
	[AN] QYF0569W	Unit Holder Assembly
A4	[DB] QYQ0317K	Belt Hook
	[AN] QYQ0317W	Belt Hook
A5	[DB] QZC0019K	Shoulder Strap
	[AN] QZC0019W	Shoulder Strap
A6	[AN] QFTC07L017NZ	Demonstration Tape
A7	[AN] QYD1032W	Battery Adaptor
PACKINGS		
P1	[DB] QPN4362	Inside Carton
	[AN] QPN4365	Inside Carton
P2	QPA0690	Cushion-A
P3	QPC0089	Poly Sheet
P4	QPS0643D	Spacer
P5	QPA0684	Cushion-B
P6	[DB] QPA0685	Spacer
	[AN] QPW1225	Accessory Box

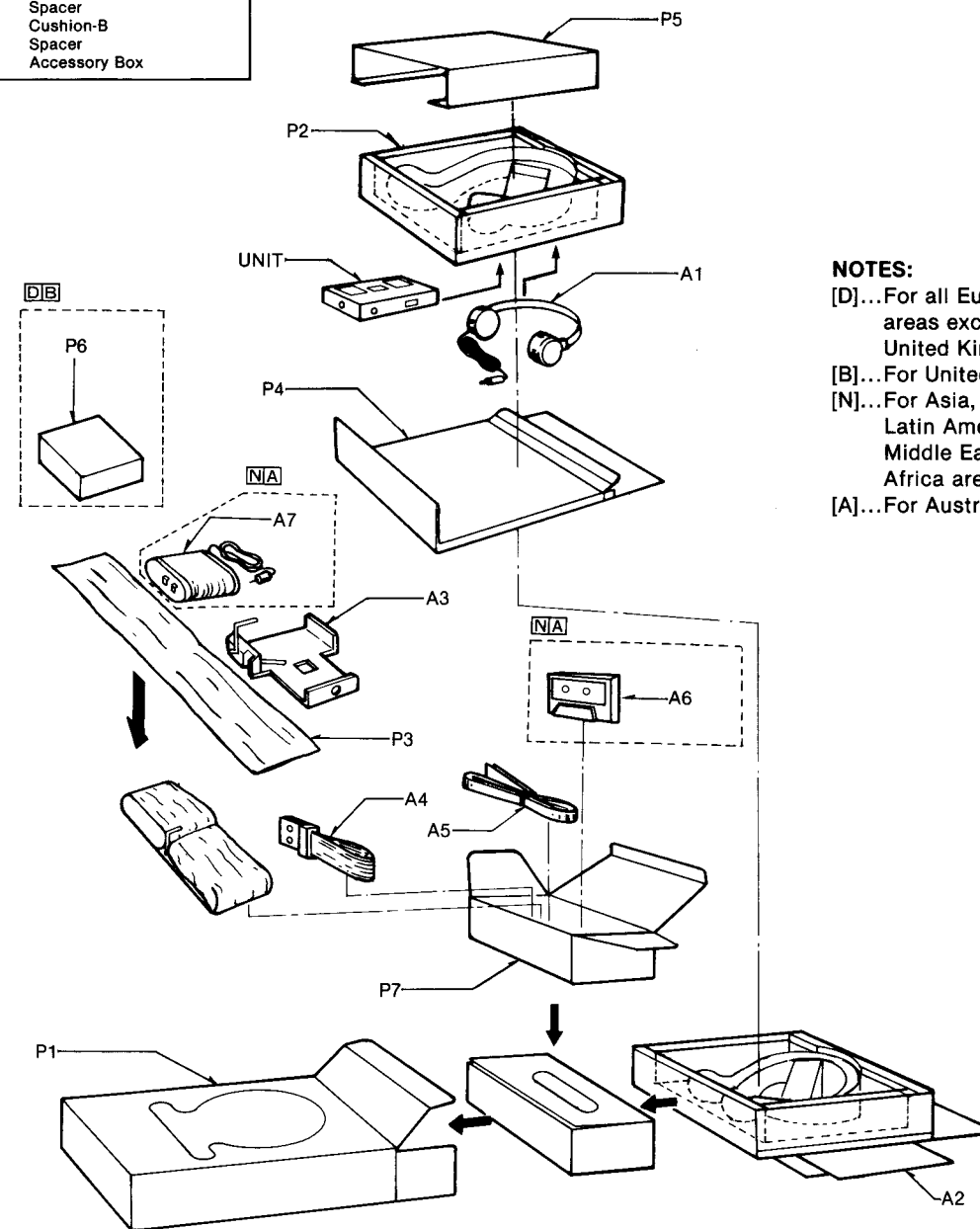
RQ-KJ1

Ref No.	Part No.	Part Name & Description
ACCESSORIES		
A1	[DB] RP9527XPCW	Stereo Headphones Assembly
	[AN] RP9527K	Stereo Headphones Assembly
A2	[DB] QQT3360	Instruction Book
	[AN] QQT3361	Instruction Book
A3	QYF0569K	Unit Holder Assembly
A4	QYQ0317K	Belt Hook
A5	QZC0019K	Shoulder Strap
A6	[AN] QFTC07L017NZ	Demonstration Tape
A7	[AN] QYD1032K	Battery Adaptor
PACKINGS		
P1	[DB] QPN4364	Inside Carton
	[AN] QPN4367	Inside Carton
P2	QPA0690	Cushion
P3	QPC0089	Poly Sheet
P4	QPS0643G	Spacer
P5	QPA0684	Cushion-B
P6	[DB] QPA0685	Spacer
	[AN] QPW1225	Accessory Box

RQ-SJ1

Ref No.	Part No.	Part Name & Description
ACCESSORIES		
A1	[DB] RP9527XPCS	Stereo Headphones Assembly
	[AN] RP9527S	Stereo Headphones Assembly
A2	[DB] QQT3360	Instruction Book
	[AN] QQT3361	Instruction Book
A3	QYF0569S	Unit Holder Assembly
A4	QYQ0317S	Belt Hook
A5	QZC0019S	Shoulder Strap
A6	[AN] QFTC07L017NZ	Demonstration Tape
A7	[AN] QYD1032S	Battery Adaptor
PACKINGS		
P1	[DB] QPN4363	Inside Carton
	[AN] QPN4366	Inside Carton
P2	QPA0690	Cushion-A
P3	QPC0089	Poly Sheet
P4	QPS0643B	Spacer
P5	QPA0684	Cushion-B
P6	[DB] QPA0685	Spacer
	[AN] QPW1225	Accessory Box

NOTES: [D]...For all European areas except United Kingdom.
[B]...For United Kingdom.
[N]...For Asia, Latin America, Middle East and Africa areas.
[A]...For Australia.



NOTES: [D]...For all European areas except United Kingdom.
[B]...For United Kingdom.
[N]...For Asia, Latin America, Middle East and Africa areas.
[A]...For Australia.

Service Manual

Supplement-1

RQ-WJ1 MECHANISM SERIES

Mini Cassette

RQ-WJ1

RQ-KJ1

RQ-SJ1

Please use this manual together with the service manual for model No. RQ-WJ1/KJ1/SJ1 (Original) order No. ARD82070172C8-10.

This is the Service Manual for the following areas.

- Ⓓ For all European areas except United Kingdom.
- Ⓑ For United Kingdom.
- Ⓐ For Asia, Latin America, Middle East and Africa areas.
- Ⓐ For Australia.

PARTS COMPARISON TABLE:

Please revise the original parts list in the Service Manual (RQ-WJ1/KJ1/SJ1) to conform to the changes shown herein.

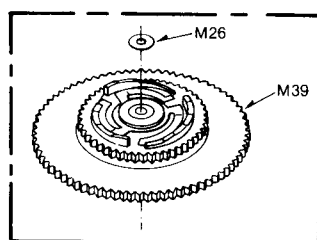
If new part numbers are shown, be sure to use them when ordering parts.

NOTES: (WJ1) ... RQ-WJ1, (KJ1) ... RQ-KJ1, (SJ1) ... RQ-SJ1.

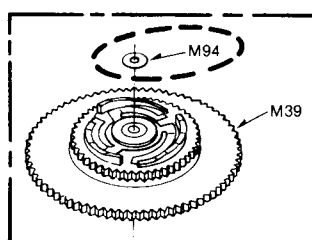
Ref. No.	Part Name & Description	Part Numbers		Remarks
		Former Type	New Type	
M22	Fast Forward Arm Back Spring	QBT1928	QBT1974	
M25	Washer	QBW2030	QBW2081	
M28	Screw $\oplus 1.6 \times 2.5$	XQN16 + A25FZ	XQN16 + C25FZ	
M32	Screw	XQN2 + A2	XQN2 + A25FZ	
M41-1	Poly Washer	QBW2021	QBW2093	
M92	Screw	XQN12 + A12	QH1328K	
M94	Poly Washer		QBW2108	Added
G8 (SJ1)	Ornament Screw-A	QH1326	QH1326S	
G8 (KJ1)	Ornament Screw-A	QH1326	QH1326K	
G9 (WJ1)	Ornament Screw-B	QH1328S	QH1328W	
G9 (SJ1) Ⓐ	Ornament Screw-B	QH1328K	QH1328S	Corrected
G9 (KJ1) Ⓐ	Ornament Screw-B	QH1328S	QH1328K	Corrected
A5 (WJ1) Ⓐ Ⓑ	Shoulder Strap	QZC0019W	QZC0019H	
A5 (WJ1) Ⓓ Ⓑ	Shoulder Strap	QZC0019K	QZC0019	
A5 (SJ1)	Shoulder Strap	QZC0019S	QZC0019H	
A5 (KJ1)	Shoulder Strap	QZC0019K	QZC0019	

MECHANICAL PARTS LOCATION

(DIFFERENCE)

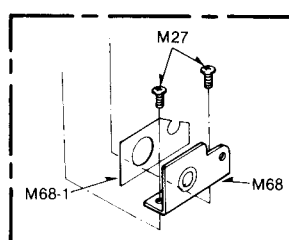


Former Type

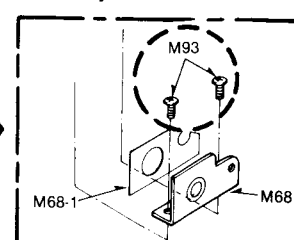


New Type

(DIFFERENCE)



Former Type



New Type

National / Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

(ARD, A.H) Printed in Japan

Service Manual

Supplement-1

RQ-WJ1 MECHANISM SERIES

Mini Cassette

RQ-WJ1

RQ-KJ1

RQ-SJ1

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This is the Service Manual for the following areas.

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- ▢ For United Kingdom.
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PARTS COMPARISON TABLE :

Please revise the original parts list in the Service Manual (RQ-WJ1/KJ1/SJ1) to conform to the changes shown herein.

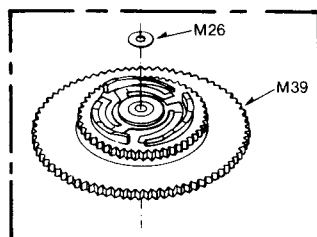
If new part numbers are shown, be sure to use them when ordering parts.

NOTES: (WJ1) ... RQ-WJ1, (KJ1) ... RQ-KJ1, (SJ1) ... RQ-SJ1.

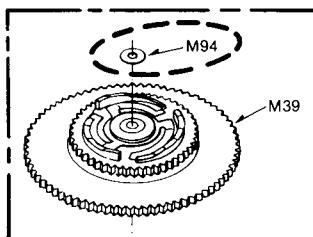
Ref. No.	Part Name & Description	Part Numbers		Remarks
		Former Type	New Type	
M22	Fast Forward Arm Back Spring	QBT1928	QBT1974	
M25	Washer	QBW2030	QBW2081	
M28	Screw $\oplus 1.6 \times 2.5$	XQN16 + A25FZ	XQN16 + C25FZ	
M32	Screw	XQN2 + A2	XQN2 + A25FZ	
M41-1	Poly Washer	QBW2021	QBW2093	
M92	Screw	XQN12 + A12	QH1328K	
M94	Poly Washer		QBW2108	Added
G8 (SJ1)	Ornament Screw-A	QH1326	QH1326S	
G8 (KJ1)	Ornament Screw-A	QH1326	QH1326K	
G9 (WJ1)	Ornament Screw-B	QH1328S	QH1328W	
G9 (SJ1) ▣	Ornament Screw-B	QH1328K	QH1328S	Corrected
G9 (KJ1) ▣	Ornament Screw-B	QH1328S	QH1328K	Corrected
A5 (WJ1) ▣ Ⓐ	Shoulder Strap	QZC0019W	QZC0019H	
A5 (WJ1) □ ▢	Shoulder Strap	QZC0019K	QZC0019	
A5 (SJ1)	Shoulder Strap	QZC0019S	QZC0019H	
A5 (KJ1)	Shoulder Strap	QZC0019K	QZC0019	

MECHANICAL PARTS LOCATION

(DIFFERENCE)

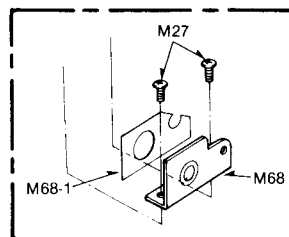


Former Type

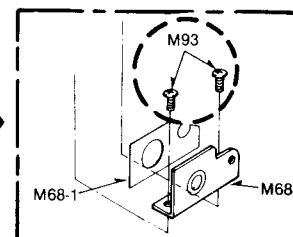


New Type

(DIFFERENCE)



Former Type



New Type

National / Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

(ARD, A.H) Printed in Japan